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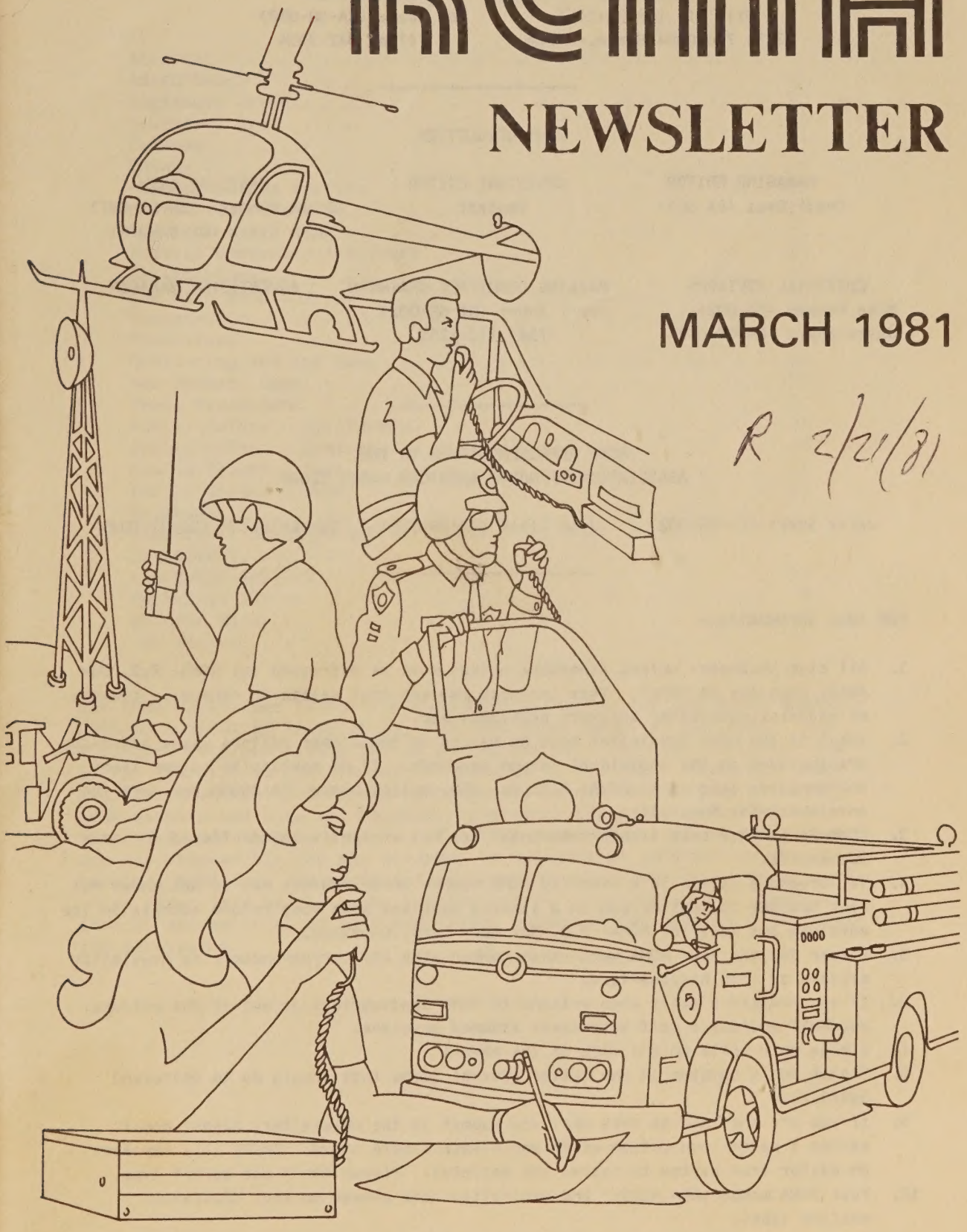
RCMA

NEWSLETTER



MARCH 1981

R 2/21/81

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OF MONITOR RADIO LISTENERS

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RCMA NEWSLETTER

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FOR YOUR INFORMATION:

1. All club business, unless otherwise noted, must be addressed to: RCMA, P.O. Box 4563, Anaheim, CA 92803. This includes matters that relate to renewals, changes of address, newsletter delivery problems, etc.
2. Input to the RCMA Newsletter must be mailed to the proper editors whose addresses are included in the individual column headings. If no particular column seems appropriate, send it to RCMA, P.O. Box 216, Willow Grove, PA 19090 and mark the envelope "For Newsletter."
3. RCMA Newsletter back issues (reprints) are not presently being offered for sale to members.
4. To forward a letter to a specific RCMA member whose address you do not know, put your message to that person in a stamped envelope with your return address in the envelope and mail to: RCMA, P.O. Box 408, Earp, CA 92242.
5. Please include your RCMA membership number with all correspondence to newsletter editors or club headquarters.
6. If you require a reply when writing to RCMA headquarters or one of the editors, you MUST enclose a self-addressed, stamped envelope.
7. Please only write on one side of the paper.
8. Please don't combine in one letter several items that should go to different addresses.
9. If you are inclined to type what you submit to the newsletter, please don't exceed a seven-inch column width and please single space. Doing this may save an editor from having to retype the material. Please don't use script type.
10. Your RCMA membership number and expiration date appear on your newsletter mailing label.
11. You may join or renew your membership for ONLY one year at a time.
12. The RCMA Newsletter accepts paid advertising. If you would like to place a paid ad, please write to our advertising manager (address above) for our advertising guidelines.

RCMA NEWSLETTER

March 1981 Issue 61
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RCMA, P.O. Box 4563, Anaheim, CA 93803

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********* 1980 R.C.M.A. Newsletter back issues are now available.

Price $1.50 per copy

Orders should be sent to: R.C.M.A.
Bill Ell, Secretary
2831 Hermanos Street
Pasadena, Ca 91107

** Calendar **

Send notices of upcoming events for the Calendar section to John Clark, RCMA, P.O. Box 4563, Anaheim, CA 92803. Please send notices well in advance of the Newsletter deadline.

March 20

FRIDAY General Meeting: Mercury Savings and Loan, Valley View and Lincoln Avenue, Buena Park, Ca. 8:00 P.M. Tentatively scheduled is a representative of Radio Shack who will discuss their new products for 1981.

Board Meetings are open to all members of R. C. M. A. They will start at 7:30 PM. Now that we have separated labeling of the newsletter the meetings will be devoted to R.C.M.A. policy and of course the lattest scanner activities.

March 3	TUESDAY Board Meeting at Anaheim Library Branch 1349 S. Euclid.
April 7	TUESDAY Board Meeting at Anaheim Library Branch 1349 S. Euclid.
May 5	TUESDAY Board Meeting at Anaheim Library Branch 1349 S. Euclid.
June 9	TUESDAY Board Meeting at Anaheim Library Branch 1349 S. Euclid.

NEWSLETTER DEADLINES:

*** please note the newsletter deadlines refer to the month the newsletter is to be mailed. Not the date on the cover. Information submitted by November 9 will be mailed to members in December. The December mailing carries a January cover date to assist USPS in their speedy delivery.

March	9	MONDAY Newsletter deadline for "April" Newsletter.
April	6	MONDAY Newsletter deadline for "May" Newsletter.
May	4	MONDAY Newsletter deadline for "June" Newsletter.
June	8	MONDAY Newsletter deadline for "July" Newsletter.
July	6	MONDAY Newsletter deadline for "August" Newsletter.
August	10	MONDAY Newsletter deadline for "September" Newsletter.

THOUGHT waves

Chuck Gysi, Managing Editor, P.O. Box 216, Willow Grove, PA 19090

Has RCMA's column on Shortwave Utilities made you aware of a new listening experience yet?

Monitoring two-way conversations on the shortwave bands is very compatible to dropping in above 30 MHz. Just like the VHF and UHF bands, the hobbyist can hear marine and aviation traffic on the SW bands, not to mention businesses, law enforcement agencies and federal governments, not just the United States, but foreign nations as well.

There's more than just hams, odd noises and international broadcast stations to be heard on SW. I know; the bug bit me.

Almost a decade ago, I purchased a multi-band radio for $40 and used to tune in stations such as Radio Moscow, the Voice of Vietnam and Radio Austria. With more than 25 countries verified on that radio (which I eventually wore out), I purchased a Realistic DX-150A receiver.

With the new radio, I started hearing point-to-point relays and aircraft on the SW bands. Lately, my interest in SW "utes" has been renewed. Not only have I listened to ships and Strategic Air Command channels, I have made the listening compatible with scanner listening by listening to Air Force 1 or 2 talking to Andrews Air Force Base in Maryland on shortwave after I hear "wheels up" reported on the scanner.

There's just so much to hear on the shortwave bands. One further example would be a string of reports from Associated Press reporters that are filed for distribution to radio stations. Has the ute bug bit you yet? If not, give it a try.

Have you heard the local police talking about switching to channel numbers that seem much higher than the number of channels their regular two-way radios are equipped with?

Chances are it's CB they're switching to. Lately, I have been hearing Central New Jersey police departments switching over to CB ("Charlie Bravo") for chit-chat. When you hear them switch to Channel 18, it's time to turn the scanner down and CB radio up.

If you live in Ohio, you might be interested in affiliating with the All-Ohio Scanner Club. Dues are $10 annually. For information write to AOSC, 104 Maplewood, Mount Vernon, Ohio 43050

Tony Loving (NJ-005) sent to me a copy of a monthly publication called Mobile Emergency Communications. It carries reports on technology, industry, regulation and new products. A subscription runs $60 a year. For more information, write: Emergency Communications Services Inc., P.O. Box 208, Redondo Beach, CA 90277.

We still need several editors for the newsletter. We are in desparate need for a Monitoring and the Law editor. This position has been open too long. Surely, someome must have an interest in monitoring law who would be willing to spend a few hours a month preparing the column.

Also needed is a new Satellites column editor. If satellite monitoring is your bag, perhaps the column editing duties would interest you.

In addition, I still need an assistant editor to help me out with the newsletter each month. The person should be able to type neatly and accurately and have a good command of spelling and basic grammar. The editor will help out with different newsletter columns and general correspondence. It would be best if the person lived in

New Jersey, Eastern Pennsylvania or New York City so we could get together on occassion to discuss operations. Interested? Drop me a line.

Also we need a new advertising manager for the newsletter. Michael Iacono (MA-023) has resigned the position and a replacement is needed. The advertising manager's job is to receive all advertising from advertisers. He will keep a ledger book and forward all payments to club officers for deposit and also will hopefully actively recruit new ad accounts for the newsletter. If you can type and keep neat and accurate books, please write me a letter if you are interested in the position.

YOUR THOUGHTS

P.O. Box 216, Willow Grove, PA 19090

To the editor:

I would like to show my appreciation to the Delaware Valley members of RCMA. They were very, very helpful to me when I visited the Philadelphia area in the summer. One special thanks to Matt Peskin (PA-016) on his excellent taped presentation on the Philadelphia Police Department. One other thank you to John Hart (PA-019).

Mark Wolfgang (MA-045)
Revere, Massachusetts

To the editor:

This letter is in response to the letters of M. Stephens of Digicom/Systems Research and Michael Esposito of Firecom Communications in the January issue of the RCMA Newsletter.

I have in front of me a catalog from Firecom Communications. They list publication #5002 Radio Communications Guide (published by Handler Enterprises Inc.) for $12. The same price also is listed in a catalog by Digicom for this publication. The letter in the January issue would lead one to believe that they offer this publication at the same price the publisher does. They also point out that they send their orders by first class mail.

Handler Enterprises Inc. is the publisher of the Radio Communications Guide. It sells them to U.S. residents for $7.95 by fourth class mail and $8.95 by first class mail. We also sell these publications wholesale to companies like Digicom. Once we sell them these books, we do not regulate how much they can or cannot charge.

I would hope that both Digicom and Firecom read this letter to note what our current prices are so that when they compare them in print, they will be able to do so as accurately as possible.

I have been in the hobby for more than 15 years, the past 10 prublishing material. I do make a profit on my books that I sell and I am proud of it. I try to price the publications I sell in a reasonable manner. The consumer is the best judge of what is a reasonable price. Remember, most times you get what you pay for. However, always shop around for the best price.

In addition, I have been informed that Digicom/Systems Research Group opened their post office box on Nov. 28, 1979 and at that time listed Michael Esposito as the owner, according to postal officials. Note that Michael Esposito, who is listed as owning Digicom by the Postal Service, signed the Firecom letter in the January newsletter. I understand he represents both companies and works for both. With

persons doing business from a post office box, if you write the postmaster, he will disclose the name, address and other box information.

Steven Handler (IL-001)
President, Handler Enterprises Inc.
Deerfield, Illinois

To the editor:

Apparently I was not clear in my first letter, I apologize. I was probably seeing red thus my vision was somewhat obscured when I was typing the first letter.

I wish to reply to both letters; First Mr. Stephens letter. I apologize Mr. Stephens the Frequency Expansion Techniques Report has probably not appeared in print before, however I know that information on out-of-band programing has. At least twice in the RCMA Newsletter, even Scanning Today published by SCAN had an article on out-of-band programming for the BC-250 in the last issue. I will repeat what I found works for my Regency. e.g. .143.46 Just push the decimal point first.

As to the inaccuracies on prices I will clarify, I paid $14.95 with no postage charge for the Federal Frequency Directory. I will admit I have seen an ad recently in which the price is stated as $14.95 plus $2.00 postage. That is still quite a bit different than the $22.50 Digi-Com asks or the $20.00 Firecom asks. I paid $6.95 plus $1.00 postage for Handlers Radio Communications Guide again quite different from the $12.00 Digi-Com and Firecomm both ask. I only paid $5.95 for my copy of the ILL Police Call,according to the back cover all the editions are priced the same with $1.50 asked for First Class Mail. Digi-Com and Firecom both ask $9.00. Let the Membership be the judge.

I wish to apologize to Mr. Esposito for the use of the word "publish". I'm sorry I should have said "sell". Also I should apologize for not mentioning that the Consumer Bulletin is offered for free. I apologize.

Again I apologize to both Mr. Stephens and Mr. Esposito for any inconvenience I may have caused. I hope this letter has clarified the matter. I only wanted to alert the Membership to what I saw as a rip-off.

Scott P. Menke (IL-054)
Elgin, Illinois

CANADA

Send Canadian frequency information, radio system details and other information relating to Canadian monitor radio listening and questions to: Robert Berezowski, 5832 Dalhousie Drive NW, Calgary, Alberta T3A 1T1 Canada.

This month we start off with some corrections to the December column. They were passed on by Gilles (CAN-004). First the OPP frequencies of 166.680 and 171.210 are wrong. According to Gilles they belong to the Quebec Provincial Police. Below is a table of the frequencies for the QPP:

Channel	Tx	Rx
1	171.360	166.800
2	172.140	166.740
3	171.540	166.500
4	171.480	167.340
5	171.930	167.040
6	171.210	166.680
7	171.810	166.620
8	172.080	166.830
9	172.200	167.010
10	171.780	166.650

Simplex: 171.180 and 172.020

Gilles also doubts the accuracy of the frequencies for the Gatineau Police Dept. The frequencies 169.290 and 169.890 are used in Quebec by the municipal highway services and other provincial agencies. The Vanier Police Dept. is on 142.185, not 163.780 as listed. This is an image, as are the frequencies for the Ottawa-Carleton Transportation service. I am not sure of the proper channels because I don't know the IF of the receiver used. I have these channels from a seperate source but they do not match the ones I gave in December:

410.125
411.125
411.625
412.1375

I would really appreciate someone writing to me and giving the correct channels.

Gilles also gave the following information on the civil defence system in Montreal:

Rx	Tx		
148.685	149.495	CJW-573	Provincial Emergency #1
148.720	149.380	"	" " #2
Simplex:	27.600	CJW-943	
	149.410	XJF-77	Mirabel Airport and Region
	149.710		
	149.890		
	148.655	XJG-69	Co-ordination with Montreal FD
	148.665		

It seems to me that the last frequency 148.665 is a little too close to a couple of the other channels. That last channel may be a legitimate frequency, but I would appreciate it if someone would check it out and let me know.

Brian (CAN-013) has sent me the following frequencies for the Saint John, N.B. area:

Saint John, N.B.	City Police Dept.	F1	154.770
		F2	154.800
	City Fire Dept.		153.890
	St. John Ambulance		150.095
	City Public Works		169.080
	City Water Dept.		153.650
	City Hydro		164.185
	Transit		171.780
	Radio Station CFBC		172.890
	Radio Station CHSJ		172.740
	RCMP		155.700
			155.670
	N.B. Power Commision		163.975
	N.B. Telephone Co.		152.240
	Mobile Telephone		152.630
			152.570

Also for that region of the country is this list of RCMP channels

From Guy (CAN-031): "RCMP"

138.015 / 142.005	MT Sanne,Nfld
138.050 / 142.075	Marystown, Nfld
138.075 / 142.065	Gambo, Nfld & Northview,NB
138.080 / 141.830	Nfld
138.285 / 143.475	Truro,NS
138.525 / 142.515	Northview,NB
138.615 / 142.605	N.B.
138.735 / 143.775	Upper Sackville,NS
141.210 / 148.975	Nfld & NS
141.210 / 148.705	NS
141.720 / 148.975	NS
141.720 / 148.225	Halifax,NS
142.095 / 148.405	NS
142.365 / 150.575	NS
142.665 / 150.335	NS
142.665 / 150.575	Lingan,NS
142.695 / 148.615	NS
143.085 / 148.075	Nfld
143.085 / 148.015	Oman,NS
143.115 / 148.105	St John, NB
143.145 / 148.135	NB
143.145 / 148.585	Lingan,NS
143.145 / 148.975	NS
143.235 / 148.225	Nfld
143.235 / 148.135	NS
143.295 / 148.285	Acadiaville,NB
143.445 / 148.435	Sormony,NB
143.475 / 138.735	NS
143.745 / 148.735	Acadiaville,NB & Newburg,NB
143.775 / 148.765	NB
143.775 / 150.365	NS
143.775 / 148.405	Lingan,NS
143.995 / 148.945	NS

Those RCMP channels from Guy are part of a larger list that will be appearing in installments in the next few months. They are probably used for radio links to the various remote repeater sites. If anyone listens to RCMP transmissions they are definitely worth listening in on.

Now we move over to Ontario for this tidbit from Alex (CAN-040) concerning the M.S. Chi-Cheemaun which provides ferry service between Tobermory and South Baymouth in Georgian Bay. This service is operated by Marine Services Division of Ontario Northland and

they use the frequency 157.460 for ship to shore and for docking. The ferry operates from late April to late October, so it will be a little while before you can start listening.

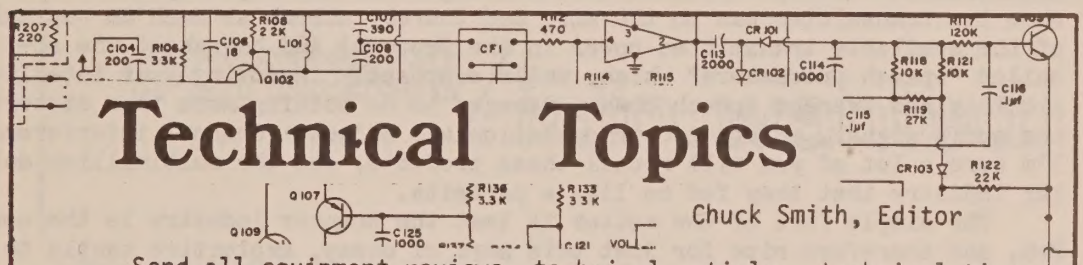
Now we will move a little further west and continue the lists for the B.C. area.

B.C. Provincial Gov.	Civil Defence	Emergency Ops	Net-1	149.525R
		Standby/Drill	Net-2	148.655
		Operations	Net-3	148.685
		"	Net-4	149.495
	Highways	Maintenance	(R)	143.295
		"	(R)	143.415
		"	(R)	143.445
		"	(R)	143.715
		"	(R)	143.895
		Bridge/Tunnel Patrol		153.740
	Ferry System	Operations		155.910
	Hydro	Repair Crews		149.320
		"		149.410
		"		149.470
		"		149.560
	Forest Service	Fire Dispatch		159.270
				163.075
				163.290
				163.245
				163.830
				163.890
				163.940
				163.990
				164.005
		Main		157.470/164.085
		Water Bombers		164.190
		Quesnel		164.265
		Local Dispatch		164.830
		Tankers		171.030
	Urban Transit	Supervisors	(R)	157.650
		"	(R)	158.490
	Attorney General	(Sheriff)		154.860
	Fire Marshall			155.460
	Provincial Jails			156.090
	B.C. Wildlife & Parks	Dept.		155.220
Federal Government	DOC	Vancouver VGA-211		149.080
		Langley VGA-216		149.080
	Federal Prisons			151.475
	Immigration Officers		(R)	461.6625
	National Harbours Board	Police		168.990
Abbotsford	Public Works			169.590
Agassiz	"	"		169.170
Burnaby	"	"	(R)	169.410
	Water Dept.			168.240
Courtney	Fire Dept.			153.830
Coquitlam & North Vancouver	Emergency Measures	Search Team		158.865
Langley	Public Works			168.855
Matsqui	Public Works			169.260
Mission	"	"		169.080
Nanaimo	"	"		169.800
New Westminster	"	"		151.385
North Fraser	"	"		169.080
North Vancouver	"	"		154.010
Oak Bay	"	"		169.110
Richmond	"	"		158.730
Saanich	Civil Defence			159.105
	Public Works		F1	169.660
	"	"	F2	169.590
	Central Saanich Works			169.320

CANADA CONTINUED

Squamish	Public Works		154.130
Surrey	" " , Water, Sewer		167.580
Vancouver	Roads	(R)	143.175
	Garage	(R)	143.505
	Water	(R)	143.655
	Electric	(R)	143.745
	"		151.355
	Public Works		153.950
	Civil Defence NET		158.910
Victoria	Public Works		169.350
	Water District		169.530
West Vancouver	Public Works		169.110
Marine	Coast Guard Weather		161.650
	Weather Radio Canada CFA-420		162.400
	DOT Lighthouses Weather Net	(R)	143.535
	Seaspan Tugboat Dispatch		156.275
	Vancouver Harbour Pilots		156.850
	" " Traffic Center		156.600
	Victoria Harbour Traffic Control		156.600
News Media	BCTV News	(R)	450.800
	BCTV News	(R)	451.675
	CJJC Traffic Reports		150.070
	CJOR Traffic/News	(R)	450.200/455.2125in
	CKNW-AM/CFMJ-FM News		152.930
	Vancouver Province Circulation	(R)	460.350
	Vancouver Sun	(R)	460.875
Paging Services	Block Brothers Realty		149.290
	Distacom		150.695
	"		163.445
	"		163.695
	Tasco		164.400
	Westel		164.250
	Vancouver General Hospital		149.020

I am afraid that I am going to have to cut it off at that point. Next month I will have more of the same, including perhaps some DND aeronautical frequencies. Meantime keep the material coming in.



Technical Topics

Chuck Smith, Editor

Send all equipment reviews, technical articles, technical tips and questions on such subjects as receivers, antennas, preamps, accessory equipment, repeaters, links, tones, scramblers, non-voice data transmissions or even computer applications for monitoring to: Chuck Smith, 4901 Heil Ave., #3C, Huntington Beach, CA 92649.

Greetings one and all, and welcome to the February, 1981 issue of the RCMA Newsletter. I think that one of the side benefits of writing a column for this illustrious publication is that we column editors get a full two month head start on the rest of the membership when it comes to getting used to writing the year 1981 on all our letters, checks, and the like. Normally, I find myself still using 1980 well into the month of February, but under these circumstances the situation is quite the opposite: I'm already using the year 1981 and it's still midway through the month of December! I wonder what all those people I owe money to will say when they see all of those checks mistaken post-dated for an entire year, ha ha!!

Before I get off on the technical subjects for the month, I think a little bit of editorializing on my part is due, particularly because (1) I haven't done it in quite a long time, and (2) because a subject has come to mind which I think deserves a bit of extra discussion. This subject isn't exactly what one would venture to classify as controversial, but I think it may be of considerable significance, particularly in the immediate future as the popularity of scanners increases. This problem is one that devastated its way through Citizen's Band radio circles like a hungry fire in a tinder dry forest, and one that could threaten the respectability of our hobby just as well. No, I'm not referring to the ever-present kooks and crazies that inevitably spring up whenever there is an emergency or other disaster, although that remains an ever-present item of concern; what I am talking about are the so-called "electronics manufacturing companies" that stand ready to make a quick and dirty dollar from almost any popular hobby, whatever it may be. Now, I'm not lashing out against any company or any individual by name, inuendo, or any other fashion; I want that clearly understood from the beginning. What I'm trying to do is caution the members who are reading this column against being suckered into buying some of the hastily prepared and poorly engineered products that will eventually find their way onto the marketplace.

Let me give you an example by citing some of the abuses that took place at the height of the Citizen's Band Radio craze of several years ago. At the beginning, when radios were relatively expensive and the Citizen's Band still relatively uncrowded,(as if it were ever really uncrowded) the problem of exploitation didn't really exist because there wasn't much of a market for this type of equipment. However, once the number of CB radios in use got up into the tens of millions, the profit motive became a very large one, and the marketplace was soon inundated with cheap electronic garbage being touted for the Citizen's Band Radio operator. There were hosts of such gimmicks, ranging from special antennas--as if radio waves at 27 MHz behave any differently from any others--to specially prepared antenna switches and SWR bridges, which if anything posed more of a hazard to the equipment it was connected to than anything else.

Not to say that most of this junk didn't work--at least well enough to keep the manufacturers out of court--but in most cases the equipment certainly wasn't as special or unique as it was claimed to be, and in almost all cases certainly not worth the inflated price tags. I'm sure that some of you remember the type of thing I'm talking about. For example, even the most idiotic radio operator wouldn't put much stock in an antenna with a neon bulb on the top which would do nothing more than light up and blink when the transmitter was on the air, and thereby absorb as much as one half of the available transmitted power in the process! And how about the so-called "speech processors" which, while supposedly improving your intelligibility and average speech power, managed to do nothing more than distort the audio signal, creating overmodulation and adjacent channel interference! I'm sure a lot of you will recall these products, and the multimillion dollar industry that they fed on like a parasite.

The simple fact of the matter is that the scanner industry is the new fad, and therefore ripe for just this sort of cheap, exploitive tactic to make a quick buck. There is no simple fool-proof method for telling the worthwhile products from the garbage, so the prevailing attitude should be "caveat emptor", or let the buyer beware. It never hurts before spending your money on a new and untested product to first invest a little of your time to check out the company or persons offering the product for sale. A few moments taken here may save you a lot of money, aggravation, and hassles later, and no reputable company should resent taking the time to answer your questions. After all, if you're not worth a little of their time then they're not worth any of yours, right?

Read the advertisements for the product carefully, and with a grain of salt. Remember, the company placing the ad has the job of making the product sound as good as possible, and they're not immune to stretching the truth a little once in a while. Pay particular attention to whatever warranties, if any, the product carries, and it always makes me feel better when I see the manufacturer offer a money-back guarantee if you aren't satisfied with the piece of equipment. Don't let this one point be your only reference, however, because sometimes getting your money back can be

cations by using dedicated radio links into the input, while the mobile units would accomplish use of the system in the conventional manner. The link would take place on a separate frequency and using directional antennas to insure maximum effectiveness. For example, in a system consisting of two repeaters, one may operate with an input frequency of 153.025 MHz and an output frequency of 151.325 MHz, while the other may use 153.985 MHz as the input frequency and an output frequency of 151.255 MHz. These frequencies, by the way, are totally fictitious and are being used simply to illustrate the operation of the system.

Now that we have two completely separate repeater systems, let's imagine that each site is also equipped with a receiver set up to receive a frequency of 416.975 MHz and retransmit it on the output frequencies, and that each of these receivers is connected to a beam antenna which is aimed at the "headquarters" station. By using this link, the headquarters station could then directly access and control either or both of the two repeaters in this hypothetical radio system. By using these links, control can be exercised over the system without having to resort to using the conventional method via the input. In this manner, control tones, bursts of DTMF, etc. can be applied for purposes of control without being repeated over the system itself, and in cases of interference where the input frequency is being jammed, the system can be cleared or even shut down using the link.

Speaking in general, good common sense frowns on the use of the input frequency of a repeater system for control purposes. As just mentioned, the control tones and codes would be repeated over the system for all to hear, and in cases of malfunction or interference, the input frequency itself may not be available. Even in simple systems where the link is not directly used for communications traffic with the system, the FCC requires that some alternative method exist for the control of the system and shutdown in the case of a serious malfunction. However, depending upon the configuration of the individual system and its requirements, it may also be advantageous to use this link for communications, and this is often done. Since most radio systems are custom built around the communications requirements it serves, it is almost impossible to give a general description of how links are used in all cases, but the preceding explanation is adequate if somewhat rough.

That's about it for this month. Until next time, then, 73 to all and the best of listening to you!!

contact/info wanted

This column has two purposes: to help members contact each other, and to help members obtain information directly from one another on various subjects related to 2-way communications monitoring. If you desire to converse, meet, or correspond with other members, by telephone, letter, or cassette tape in a certain geographic area, or with members who have similar listening interests, this is the perfect place for you to make your desires known. Remember -- those who respond will do so directly, so be sure to provide your phone number, the best time to be called, or your address.

Write to: John W. Darr, P. O. Box 1652, Cheyenne, WY 82001

AMUSEMENT PARK FREQS Illinois member is now compiling a listing of frequencies for amusement parks across the country, and he needs any relevant information that members might have. Those who send him information will receive a complete listing -- at no charge -- when he is finished compiling the list. [12-6-80]

KIRK A STOLT (IL-Ø24), 1038 Augusta Ave, Elgin, IL 60120

a hell of a lot harder than the manufacturer makes it seem. I think the greatest insurance you can have against being hood-winked by some of these nefarious fly-by-night operations is a little good old-fashioned skepticism. After all, products such as antennas and preamps should all follow some consistent sound engineering guidelines, and I'd be more than just a bit leery if someone offered me a special "scanner" antenna that looked like a nest of coat hangers and claimed a gain figure of 10 db for it!! After all, you just can't fool Mother Nature. Antennas and the mathematic formulations which govern their size and configuration are based on a set of unalterable laws of physics, and radio waves at these frequencies are going to behave very much like those at the lower ones used by shortwave broadcasting stations throughout the world. If someone were to offer me an antenna for the low-band (30-50 MHz) that was six inches long and made a claim that, used indoors, it would out-perform a full-size quarter-wave ground plane mounted at 50 feet above the roof, I think I'd be very tempted to tell him to put it where the sun don't shine. Think about it.....

My last editorial item deals with the old bugaboo of publishing sensitive federal law enforcement frequencies. I know this subject isn't exactly a "technical topic", but nevertheless I feel very strongly about it and feel a couple of words are in order. In the introduction to his column on federal and military frequencies in the January 1981 issue of the RCMA Newsletter, Bob Grove mentioned that his mail was running roughly two to one in favor of publishing and disseminating federal frequencies, on the basis of the right to free speech, I would assume. Well, I think everyone that favors such a move should stop and think for a moment and think about the implications of such a position. I think the selfish desires of the individuals who want this information published in the Newsletter should take a secondary position to the best interests of the RCMA as an organization and the best interests of our country. Although as a club we have always opposed using the Newsletter as a forum for distributing this kind of information, we have never advocated the jealous hoarding of data by any chosen group of individuals. I would be the last person to suggest that these frequencies be the sole and exclusive "property" of anyone, for whatever reason. However, I do think that sharing this information should be on a one-to-one basis between individuals, and the RCMA take no part whatsoever in the distribution process. The Newsletter is not a clearing house for frequencies, even though this function plays a significant part in the operation of the RCMA, and I feel that irresponsible dissemination of information sensitive to the operation of the federal law enforcement agencies can only result in serious and perhaps irreparable damage to the image of this club, and possibly to our right to listen at all. Those who favor compromising the government charged with protecting that right had better sit down for a minute and think about that!

IS THIS THE MISSING LINK??

TOM (LA-003) writes and asks for an explanation of links and how they are used in the area of public service radio.

Briefly, a link is a dedicated point-to-point radio system used for connecting together (thus getting the term "link") various parts of an otherwise diversified radio system. For example, a given radio system may involve the use of two or more completely separate repeaters, depending on the desired coverage area. These repeaters would probably be accessed and controlled from some central location remote from the repeater sites themselves. Depending on the distance between the "headquarters" location and the repeater sites, there are a number of ways which the central location can use to access the repeaters. One, of course, would be to have the repeaters operate on the same frequency pair and control which one was accessed by the use of different subaudible tones (CTCSS) for each of them. However, this makes it necessary for all of the mobile units in the system to observe the same precautions in order to avoid accessing both of the repeaters and creating unnecessary interference, a procedure which may or may not be practical depending upon the type of system in use.

The other alternative for system control is the "link" approach, which allows the "headquarters" station to access any of the repeater lo-

WOLVERINE STATE HELP OFFERED Michigan's first RCMA member wants to help other Michigan members -- to include Ontario and surrounding states -- with frequencies that might otherwise prove difficult to obtain. Has listings covering every possible service used in the state. He is also into VHF (aircraft) monitoring, and has numerous listings for the world on HF, VHF, and UHF. When writing, please enclose an S.A.S.E., to facilitate a response. If he's out when you call, leave name, phone number, best time to be called back. He promises to return calls! [12-6-80]

LARRY A SMITH (MI-ØØ1), 1223 Vinsetta Blvd, Royal Oak, MI 48067 // (313) 398-9797 or (517) 856-2830 between 8:00 p.m. and 11:30 p.m. EST

NEW RTTY RECEIVER INFO Same member (as above) wishes to contact other RCMA members in order to obtain information on RTTY (radio teletype) receivers to be used in conjunction with currently available scanners and shortwave receivers in use by him. He is interested in "new only" machines, and needs information on reliable manufacturers who back their units as much as possible, in case of defects, etc. [12-6-80]

LARRY A SMITH (MI-ØØ1), 1223 Vinsetta Blvd, Royal Oak, MI 48067 // (313) 398-9797 or (517) 856-2830 between 8:00 p.m. and 11:30 p.m. EST

WANTED: RTTY READER Again, same member is interested in purchasing an RTTY reader. Needs assistance from RCMA members who are into RTTY on various machines for forward and reverse RTTY to be used on scanners and shortwave. [12-20-80]

LARRY A SMITH (MI-ØØ1), 1223 Vinsetta Blvd, Royal Oak, MI 48067 // (313) 398-9797 or (517) 856-2830 between 8:00 p.m. and 11:30 p.m. EST

OHIO SCANNER CLUB An Ohio member is seeking other RCMA members who would like to join -- and help -- a scanner club that has been active for over a year in the Buckeye State. [12-8-80]

JERRY CALLAM (OH-Ø15), 104 Maplewood, Mt. Vernon, OH 43050

AKRON OHIO FREQS and INFO Ohio member wants to exchange verified frequencies and info with other Akron-area members. He's interested in State Patrol, local police, government, business, etc., in the Summit, Portage, and Medina County areas. He has unlisted frequencies and info to share for the area concerning government, State Police, business, park rangers, etc. [12-19-80]

RANDAL STRAYER (OH-Ø83), 1348 Weathervane Lane, #2-D, Akron, OH 44313

PINE TREE STATE HELP NEEDED A Massachusetts member, who operates shortwave listening station OSW 145, needs help from member(s) in the State of Maine. He is looking for information from the Saco and Old Orchard Beach areas: 10-codes and frequencies for police, ambulance, aircraft, and ship-to-shore. [12-19-80]

RICK DUGUAY (MA-Ø78), 37 Highland Street, Orange, MA 01364

HERSHEY PARK (PA) FREQS At one time the Hershey Park, Pennsylvania, amusement area conducted all its communications on 464.275 MHz. Now only maintenance is using this channel, while security has moved to another frequency. Can anyone provide this frequency? [12-23-80]

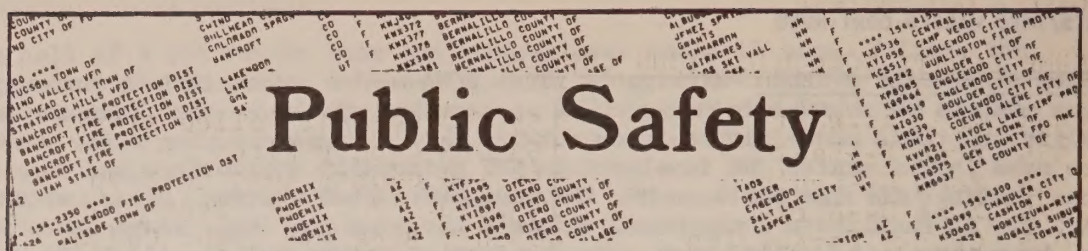
GLENN REILLY (NJ-ØØ8), R.D. #1 - Box 158, Great Meadows, NJ 07838

ATLANTA, GA, and LAS VEGAS, NV, FREQS Savannah, Georgia, member desperately needs police codes and other information that applies to Atlanta, Georgia, area. Please help! Will exchange Savannah information in return. Due to planned visit this year to Las Vegas, Nevada, would appreciate hearing from anyone who can provide him with a list of active frequencies for that city. [12-27-80]

LEWIS S HARVEY, (GA-ØØ8), 415 East Hall St, Savannah, GA 31401

USAF THUNDERBIRD FREQS Can anyone provide the plane-to-plane frequencies used by the U.S.A.F. Thunderbird aerial demonstration team? [1-1-81]

JOHN W DARR (WY-ØØ4), P O Box 1652, Cheyenne, WY 82001



Public Safety

This column is for reporting Public Safety and Special Emergency frequency information, radio system details, radio codes, dispatch areas, unit numbering systems, etc. for police, sheriff, fire, forestry (except USFS), fish and game, highway patrol, state police, prisons, prisoner work camps, local government, highway & street maintenance, port authority/bridge maintenance, animal control, ambulances, paramedics, hospitals, life guards, ski patrol, search & rescue, flood control, civil defense and disaster organizations. Input and questions for this column must be sent to the proper regional Public Safety editor listed below.

PUBLIC SAFETY - EAST

Send Public Safety and Special Emergency frequencies, radio system details and questions for Connecticut, Delaware, District of Columbia, Florida, Georgia, Maine, Maryland, Massachusetts, New Hampshire, New Jersey, New York, North Carolina, Ohio, Pennsylvania, Rhode Island, South Carolina, Vermont, Virginia and West Virginia to: Richard Barnett, P.O. Box 428, Newton Highlands, MA 02161.

From Clint (PA-031)

Dear Richard,
Here is some more stuff from my area.

Pennsylvania State Police

155.580	Zone A	Base	154.755	Statewide	M to M
155.790	"	Mobile	42.600	"	B to B
155.670	Zone B	Base	159.045	PA TPKE,	N.E. Ext.
155.910	"	Mobile	159.075	"	" , East/West
155.505	Zone C	Base			
155.850	"	Mobile			

PENN DOT

47.300 Base	47.380 Mobile	47.280 M to M, Eastern
		47.140 M to M, Western

Pennsylvania Forest Fire Net

151.295	District 6 (Indiana,Cambria, & Blair Counties)
151.175	District 7 (Mifflin, Snyder,Union Counties)
151.175	District 12(Lycoming County)
151.175	District 10(Clinton & Centre Counties)
151.295	District 11(Susquehanna,Wayne,Wyoming, & Lackawanna)
151.385	District 18(Schuylkill,Carbon,Dauphin,Lebanon)
151.385	District 19(Pike,Monroe,& Northampton)
151.295	District 13(Elk,Cameron)
151.175	District 9 (Clearfield)
151.295	District 20(Luzerne,Sullivan,Columbia,Montour, Northumberland)

Note: Other districts on Low Band, but may have switched to one of the above high band frequencies by now.

Pennsylvania Drug Enforeement

155.445 Repeater and Ch-2	154.950 Input to RPTR & Ch-1

LUZERNE COUNTY COMMUNICATIONS CENTER

155.595	Zone A--West	155.700	General Police Alerts
155.535	Zone B--East	155.025	County Fire
155.565	Zone C--South	155.160	County Amb. to Hosp.
155.070	Zone D--North	155.220	" " Back-up
463.025	County Paramedics	463.050	Back Mtn. Med. Center
156.240	County Highway Dept.		

LACKAWANNA COUNTY COMMUNICATIONS CENTER

154.875	Zone 1	153.310	County Fire
154.815	Zone 2	155.295	County Ambulance
463.000	County Paramedics	155.220	" " Back-up

From Paul (NC-021)

North Carolina State Highway Patrol Communications Network

* You must read all of the article before the meanings of some of the symbols become clear. Also, some of the following information are educated guesses.

Williamston(C)- Troop A headquarters- phone: 919-792-4101. 42.52 to New Bern and Raleigh area cars. 42.62 to A1, A2, A3, A4, A5, A7, C1, and C5 area cars. 42.56, 154.68, 154.92, and 155.19. (all KIB895). Williamston can also transmit on the following frequencies that control other stations that are located in Troop A: 75.46, 154.83, 155.445.
Elizabeth City(B)-KIA615. 42.52 and 42.62.
Engelhard(E) KIS874. 42.52 and 42.62.
New Bern(F) KIB549. 42.52 and 42.62.
*Repeater frequencies used to relay car transmissions to the bases.

Frequency	Repeats	Located near	Received by
72.88	42.78	Elizabeth City(B)	Williamston
72.02	"	Engelhard(E)	"
72.62	"	Jackson(A)	"
73.34	"	Rocky Mount(Q)	"
72.84	42.80	New Bern(F)	"
72.02	42.78	Greenville(D)	"
467.20	42.80	Goldsboro(U)	New Bren
457.05	"	Otway(H)	"
467.25	"	Jacksonville(K)	"
73.22	"	Comfort(G)	"

New Bern(F). 42.52 to A6, A7, and B3 area cars plus Raleigh area cars. 42.62 to Williamston and Elizabethtown area cars. 42.56, 154.68, 154.92, and 155.19. (all KIB549)
Jacksonville(K). 42.52 to B3 cars plus New Bern area cars. 42.62 to Elizabethtown area cars. 42.64 and 42.56. (all KLW438)

Elizabethtown(L)- Troop B headquarters- phone: 919-862-3133. 42.52 to New Bern, Raleigh, Jacksonville, and Wilmington area cars. 42.62 to B2, B4, B5, B7, and H2 area cars. 42.56, 154.68, 154.92, and 155.19. (all KIB897) 72.10 and 75.50 are used to control bases at other locations in Troop B. 462.20 is used to control the transmitter at Kenansville(J).
Fayetteville(I). 42.52 to Raleigh area cars. 42.60 to B1 area cars. 42.62 to Elizabethtown and Greensboro area cars. 42.56 (all KIA271)
Kenansville(J). 42.52 to Raleigh, New Bern, and Jacksonville area cars. 42.62 to B2 and B4 area cars. (both KTH693)
Wilmington(M). 42.52 to B6 area cars. 42.62 to Elizabethtown area cars. (both KIB365)

Bolivia(N). 42.50, 42.52, 42.62, 42.64, and 42.56. (all WYR320)
*Repeater frequencies used to relay car transmissions E-town.

Frequency	Repeats	Located near
452.05	42.78	Lauringburg(BB)
467.20	"	Kenansville(J)
457.05	42.66	Fayetteville(I)
73.22	42.80	Bolivia(N)
74.50	"	Wilmington(M)

Raleigh(S)- Troop C headquarters- phone: 919-733-3861 or 1-800-662-7956. 42.52 to C2, C4, C6, C7, and D4 plus New Bern area cars. 42.62 to Troops A, B, D, and H area cars. 42.64 to HP and SBI personnel that guard the governor plus HP helicopters. 42.56, 154.68, 154.92, and 155.19. (all KIB894) There is a second transmitter location in Raleigh that transmits on 42.60(R) (KXL415) and is controled from KIB894 by way of 452.40. 42.60 to C3, C7, and D5 area cars.
*Repeater frequencies used to relay car transmissions to Raleigh.

Frequency	Repeats	Located near
73.34	42.78	Rocky Mount(Q)
452.05	"	Lauringburg(BB)
467.20	42.80	Goldsboro(U)
456.075	"	Oxford(O)
457.05	42.66	Fayetteville(I)
457.40	"	Raleigh(R)
?	"	Hillsborough(W)
?	42.80	Louisburg(P)
?	"	Duncan(T)

Greensboro(V)- Troop D headquarters- phone: 919-379-5500. 42.52 to Raleigh and Salisbury area cars. 42.62 to D1, D2, D3, D4, D5, and D6 plus E2 and H2 area cars. 42.56, 154.68, 154.92, and 155.19. (all KIB439) Greensboro also transmits on the following control frequencies to Uwharrie: 451.075 and 452.3 (both KIL54).
Uwharrie(Z). 42.62 to E2 and H2 area cars. 42.64. (both KIB438)
*Repeater frequencies used to relay car transmissions to Greensboro.

Frequency	Repeats	Located near
452.05	42.78	Lauringburg(BB)
72.02	"	Uwharrie(Z)
72.86	42.76	Uwharrie(Z)
75.62	42.80	Gap(X)
75.70	"	Gap(X)
?	42.66	Hillsborough(W)

Salisbury(Y)- Troop E headquarters- phone: 704-637-0207. 42.52 to E1, E2, E3, E4, and E6 area cars. 42.60 to Moravian Falls area cars. 42.62 to Greensboro area cars. 42.64 to Newton and Troop H area cars. 42.56, 154.68, 154.92, and 155.19. (all KIH781) Salisbury uses the following frequencies to control transmitters in Troops E, F, and H: 72.30, 75.42, 75.46, 75.58, and 75.66.
Huntersville(AA). 42.50 or 42.64 to H1, H3, H4, and H5 plus Newton area cars. 42.52 to Salisbury area cars. 42.62. (all KIK701)
*Repeater frequencies used to relay car transmissions to Salisbury.

Frequency	Repeats	Located near
72.50	42.70	Huntersville(AA)
72.90	42.66	Moravian Falls(DD)
74.50	"	" "
75.62	42.78	Gap(X)
75.70	"	"

Newton(EE)- Troop F headquarters- phone: 704-464-8200. 42.50 or 42.64 to F1, F5, H1, H3, H4, and H5 area cars. 42.52 to Salisbury area cars. 42.62 to Troop G cars. 42.60 to F2, F3, F4, and E5 area cars. 42.56 and 155.19. (all KIT829)

Jefferson(CC). 42.60 to F2, F3, F4, and E5 area cars. 42.50, 42.56, 42.62, 42.64. (all WXY370)
Moravian Falls(DD). 42.60 to F2, F3, F4, and E5 area cars. 42.52 to Salisbury area cars. 42.62 to Asheville area cars. 42.64 to Newton area cars. 42.56. (all KIB896)
*Repeater frequencies used to relay car transmissions to Newton are the same the ones used by Salisbury.

Asheville(HH)- Troop G headquarters- phone: 704-298-4253. 42.62 to all Troop G cars. 154.92 and 155.19. (all KIQ822 and KIA377) Asheville controls transmitters at other locations in Troop G with the following frequencies: 153.74, 155.97, 451.075 to Clyde, 452.05 to Waynesville, 456.175 to Bald Mountain, 462.20 to Mount Mitchell and 73.42.
Bald Mountain(FF). 42.62(KEL394) to G1 cars.
Mount Mitchell(GG). 42.62(KIB898) to G1 and G2 cars.
Clyde(II). 42.62(KQL720) to G5 cars.
Waynesville(JJ). 42.62(KIB899) to G5 and G6 cars.
*Repeater frequencies used to relay car transmissions to Asheville.

Frequency	Repeats	Located near
453.75	42.78	Mount Mitchell(GG)
467.20	"	" "
456.075	"	Clyde(II)
457.05	"	Waynesville(JJ)
155.505	"	Franklin(KK)

Monroe(LL)- Troop H headquarters- phone: 704-283-8101 during the day and 704-637-0207 (Salisbury) at night.

N.C. State Highway Patrol Districts

As of 1978, the state had 1101 troopers. The troops are divided into districts as follows:

Troop A (9 sergeants, 16 line-sergeants, and 122 troopers)
A1 Halifax, Northhampton. A2 Bertie, Gates, Hertford. A3 Camden, Chowan, Currituck, Dare, Pasquotauk, Perquimans. A4 Beaufort, Hyde, Tyrrell, Washington. A5 Martin, Pitt. A6 Carteret, Craven, Pamlico. A7 Greene, Jones, Lenoir.

Troop B (6 sergeants, 21 line-sergeants, and 124 troopers)
B1 Cumberland. B2 Sampson. B3 Onslow. B4 Duplin, Pender. B5 Bladen, Columbus. B6 Brunswick, New Hanover. B7 Robeson.

Troop C (8 sergeants, 17 line-sergeants, and 135 troopers)
C1 Edgecombe, Nash. C2 Wayne. C3 Wake. C4 Franklin, Vance, Warren. C5 Wilson. C6 Harnett, Johnston. C7 Durham, Granville.

Troop D (7 sergeants, 18 line-sergeants, and 114 troopers)
D1 Chatham, Lee, Moore. D2 Guilford. D3 Rockingham. D4 Caswell, Person. D5 Alamance, Orange. D6 Randolph.

Troop E (6 sergeants, 16 line-sergeants, and 107 troopers)
E1 Davidson. E2 Montgomery, Stanly. E3 Davie, Rowan. E4 Forsyth, Stokes. E5 Surry, Yadkin. E6 Cabarrus.

Troop F (6 sergeants , 12 line-sergeants, and 85 troopers)
F1 Burke. F2 Alleghamy, Ashe, Wilkes. F3 Caldwell, Watauga. F4 Alexander, Iredell. F5 Catawba, Lincoln.

Troop G (6 sergeants, 15 line-sergeants, and 103 troopers)
G1 Avery, Madison, Mitchell, Yancey. G2 McDowell, Rutherford. G3 Henderson, Polk, Transylvania. G4 Buncombe. G5 Haywood, Jackson. G6 Cherokee, Clay, Graham, Macon, Swain.

Troop H (5 sergeants, 13 line-sergeants, and 91 troopers)
H1 Gaston. H2 Hoke, Richmond, Scotland. H3 Anson, Union. H4 Cleveland. H5 Mecklenburg.

Vehicle and Personnel Identifiers

1 Governor. 1A Governor's wife. 2 Lt. Governor.
100-300 are administrative officers of the Highway Patrol.
100 Colonel, 124 Captain of Troop C, 146 and 147 are "sky sergeants" (Fly helicopers...42.64), 29? guard the Governor.
A1??-H5?? are first sergeants(C611), line-sergeants(C622-C629), and troopers(C630-C699). (examples)
1S??-9S?? are SBI agents(4S10 is the head of the Raleigh District) 9S?? are assigned to guard the Governor(159.15, 154.905, 159.05)
L??? are car mechanics and radio technicians.
1100's are the Attorney General's office officials (1100 is the A.G.)
1400-1600 are License and Theft Division of the Motor Vehicle Dept.
1700's are Federal agents— Justice and Treasury Departments.
1800-1999 are Alcohol Law Enforcement Vehicles(42.84)
2000-???? are Department of Corrections Vehicles(42.56)

N.C. State Police Station Channels

Channel	Transmit	Receive	Purpose:
1	42.62	*1-42.78	sta. to car
		2-42.62	sta. to sta. and sta. to car
2	42.52	3-42.80	sta. to car
		4-42.52	sta. to sta. and sta. to car
3	42.60	5-42.66	sta. to car
		6-42.60	sta. to sta. and sta. to car
4	42.64	7-42.76	sta. to car
		8-42.64	sta. to sta. and sta. to car
5	42.50	9-42.70	sta. to car
		10-42.50	sta. to sta. and sta. to car
6	42.56	42.56	sta. to sta. and sta. to car (Department of Corrections)
7	154.68	13-154.68	sta. to sta. and sta. to walkie talkies
8	154.92	14-154.92	sta. to sta. and sta. to walkie talkies
Intercity	155.19	155.19	sta. to other law enforcement agencies

Microwave is used for station to station communications also.
* 1-10 corresponds to car channel number.

N.C. State Police Vehicle Channels (excluding SBI)

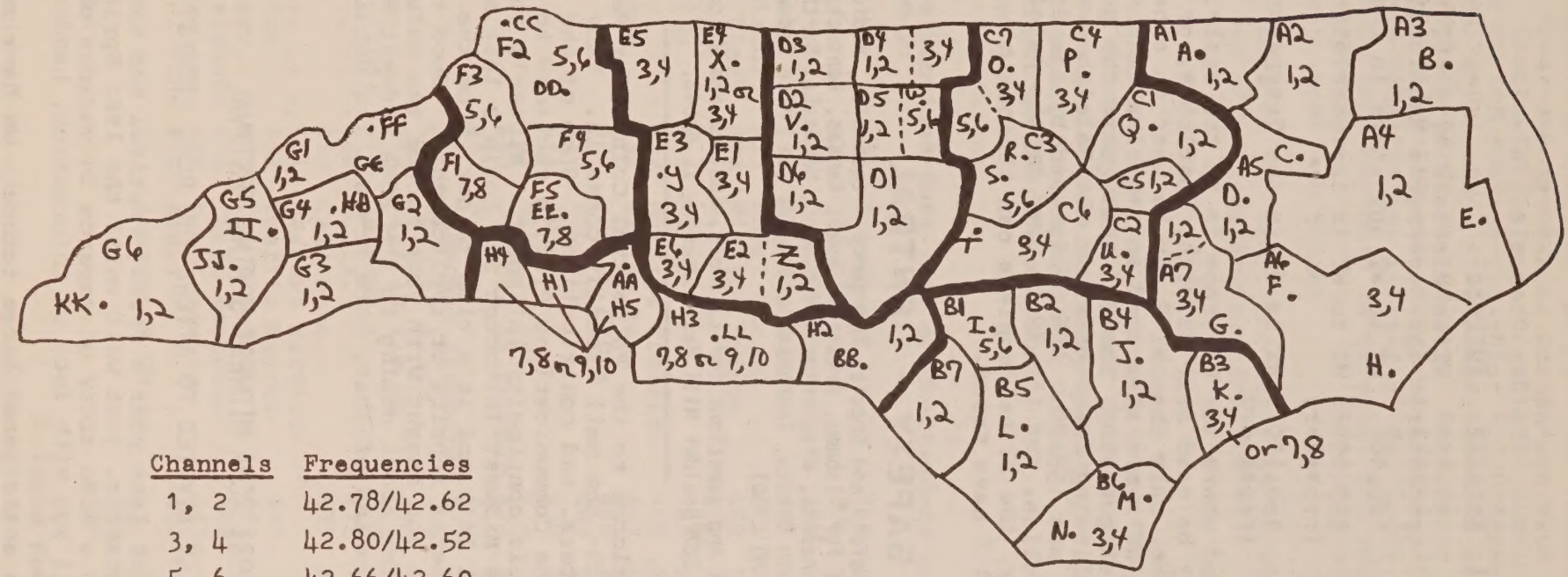
Channel	Transmit	Receive	Purpose:
1	42.78	42.62	car to sta.
2	42.62		car to car and car to sta.
3	42.80	42.52	car to sta.
4	42.52		car to car and car to sta.
5	42.66	42.60	car to sta.
6	42.60		car to car and car to sta.
7	42.76	42.64	car to sta.
8	42.64		car to car and car to sta.
9	42.70	42.50	car to sta.
10	42.50		car to car and car to sta.
11	42.82	42.82	car to car

* channel 11 for Alcohol Law Enforcement agents is 42.84 instead of 42.82.

N.C. SBI Car Channels (VHF-lo)

Channel	Transmit	Receive	Purpose:
* Channels 1-8 are the same as the police vehicle channels.			
9	42.72	42.72	car to car
10	42.58	42.58	car to car
11	42.70	42.50	car to sta.
12	42.50		car to car and car to sta.

N.C. State Highway Patrol districts, channels used within each district, and locations of transmitters—— designated by letters.



Channels	Frequencies
1, 2	42.78/42.62
3, 4	42.80/42.52
5, 6	42.66/42.60
7, 8	42.76/42.64
9,10	42.70/42.50

N.C. SBI Car Channels (VHF-hi)

Channel	Transmit	Receive	Purpose:
1	155.460	159.150 (repeater)	WT(walkie talkie) to WT and WT to the Governor's Mansion.(Raleigh area)
2	154.905	154.905	WT to WT any where in the state.
3	155.505	159.090 (repeater)	WT to WT in the Charlotte area.
4		159.150 (repeater)	WT to WT in the Greensboro area.

The WT's are used where the Governor is in the state. The repeaters can only be used near Raleigh, Charlotte, or Greensboro areas. Therefore, only channel 2 can be used in other areas of the state. The WT's are also used in vehicles that contain amplifiers. Just guessing, the SBI that guard the governor may also use the following frequencies in the Raleigh area: 154.68, 154.92, 155.01, and 155.79. 155.01 is used by the State Government Security Police, and 155.79 is used by the Raleigh City Police. Finally, the HP helicopters can ttransmit on all of the frequencies that I have noted.

PUBLIC SAFETY - CENTRAL

Send Public Safety and Special Emergency frequencies, radio system details and questions for Alabama, Arkansas, Iowa, Kansas, Kentucky, Louisiana, Michigan, Minnesota, Mississippi, Missouri, Nebraska, North Dakota, Oklahoma, South Dakota, Tennessee and Texas to: Mike Redman, P.O. Box 1177, St. Charles, MO 63301.

Send material and questions for Illinois, Indiana and Wisconsin to: John Arendt, 327 Boulder Hill Pass, Oswego, IL 60543.

Greetings and welcome to the PS Central Column for March! Lots to get to this month- the mail steadily comes in. Many thanks for all your cards, letters, and contributions. Some of the larger studies may appear in the Communications Profile section- to preserve the integrity of their continuity in length. Winter's just about over with here in the Midwest (Although St. Louis's last snow of 1980 arrived on April 14!) and it's time to get up on the roof and make those needed antenna repairs or replacements. Good time to put up that new antenna you bought with your income tax refund check. Good time to think about coming to the RCMA Midwest Spring Festival in June- and speaking of that, here are all the details you've been waiting for...

THE 1981 RCMA MIDWEST SPRING FESTIVAL

YOU ARE CORDIALLY INVITED TO ATTEND THE RCMA MIDWEST SPRING FESTIVAL

If you think last year's Spring Festival was exciting, stimulating, and fantastic, just wait until the 1981 Spring Festival! We will again have a wide array of experts in various phases of monitoring to thrill you with lots of information, handouts, advice, refreshments, and more!

Due to the anticipated large turnout, we have rented space in the First United Methodist Church, 801 First Capitol Avenue, St. Charles, Missouri, for Saturday, June 6, 1981- 12:30 PM until 8 PM. The St. Louis Chapter of RCMA will host the event. All RCMA members and their spouses or interested guests are welcomed to attend. We will charge a $5.00 registration fee to cover rental and refreshment

costs, payable in advance or at the door. This is a modest cost for the wealth of information that will be provided. The $5.00 registration fee will cover one member, or one member with a non-member spouse or guest. Checks may be made payable to Michael G. Redman.

For a packet of information regarding the program, speakers, maps to the Church, attractions in St. Charles, and a local area Frequency List, contact me at the PO Box. Send along 3 or 4 15¢ stamps for postage, and your packet will be in the mail in April.

Remember, this event is not limited to St. Louis area RCMA members. Any member from anywhere is welcome, and you don't have to belong to a local chapter, either. We'll be hoping for a large turnout, and hope to meet you there!

Well, it's pretty hard to top that, but we'll go on with items of information from our other contributors and states.

IOWA

An anonymous contribution from Iowa reveals these frequencies for the Iowa Department of Transportation Highway Maintenance Division:

159.180 Base and Mobile Repeater Output
159.195 Base and Mobile Repeater Output
156.060 Input to 159.180 and Mobile

TENNESSEE

JOHN (TN-005) has provided this list of Chattanooga and Hamilton County Police Codes:

400	Block City	429	Location	458	Lights (Traffic)
401	Eat	430	Disorder	459	Car Broken Down
402	Nature Call	431	Improp. Parked	460	Repairs
403	Call Sergeant	432	Abandoned Auto	461	Service
404	Traffic Violator	433	Susp. Person	462	Radio Shop
405	Call Police Clerk	434	Missing Person	463	Break
406	See Complainant	435	Flat Tire	464	Court
407	Out of Service	436	Escort	465	Step Location
408	In Service	437	Working Traffic	466	Person Down
409	Purse Snatched	438	Stolen Auto	467	Door Open
410	Shoplifter	439	Stolen Cycle	468	Assist a Citizen
411	Drunk	440	Robbery	469	Property Damage
412	Fight	441	Lunacy	470	Deceptive Practice
413	Wreck	442	Bomb Threat	471	Assault
414	Prowler	443	Officer in Trouble	472	School
415	Juveniles	444	Wrecker	473	Found Property
416	Shooting	445	Indecent Exposure	474	Acc. Injury
417	Cutting	446	Burglar Alarm	475	Arson
418	See a Party	447	Traffic Tie Up	476	Lost Property
419	Burglary in Prog.	448	Suicide	477	Run Breathalizer
420	Ambulance	449	D.O.A.	478	Child Abuse
421	Fire	450	Call Home	479	Request Backup, unit not 433
422	Hold up	451	Warrant Service		
423	Public Service	452	Traffic Patrol	480	No units available
424	House Burglary	453	Car Entered	481	Stand by to copy
425	Transport Prisoner	454	Theft Reported	482	Obstruction in Road
426	Business Burglary	455	Demonstration	483	Outstanding Warrant
427	Sex Crime	456	Riot	484	Special Weapons Unit Request
428	Auto Regis.	457	Abandoned Child		
				485	Overdose
				486	Arrive on Scene

Many Thanks, John!

MICHIGAN

Starting Immediately, please send items, questions, or contributions for Michigan directly to John Arendt, 327 Boulder Hill Pass, Oswego, Illinois, 60543. John will be adding Michigan to his existing states

for which he writes his monthly column following my own. This month we have the 10-codes and Offense Codes for Ann Arbor Michigan, sent along by JIM (MI-044):

10-1 EMERGENCY full equipment
10-2 negative
10-3 positive
10-4 acknowledgement
10-5 return to station
10-6 your check is negative
10-7 telephone (location)
10-8 prisoner or suspect present
10-9 pick up_____ at _____
10-10 message---prepare to copy
10-11 crime in progress
10-12 emergency radio traffic
10-13 officer needs emergency assistance
10-14 ambulance needed
10-15 cover unit requested
10-16 stopping suspicious vehicle
10-17 resume normal radio traffic
10-18 any traffic for this unit?
10-19 no traffic for your unit
10-20 location
10-21 traffic stop
10-22 warrant check
10-23 stolen file check--VIN. or license
10-24 IBM check
10-24V Violations bureau check (parking warrant)
10-25 vehicle registration check
10-26 arrived at scene
10-27 assignment complete(T-time/R-reportee/C-complainant/N-number)
10-28 unnecessary radio traffic
10-29 records on LEIN indicate "wanted"
T-traffic/F-felony/M-misdemeanor/S-stolen
10-30 in-service
10-31 out of service (location)
10-32 disregard
10-33 stand by
10-34 no further help needed
10-35 stake out
10-36 notify if ambulance needed
10-37 ambulance not needed
10-38 repeat, not clear, interference
10-39 pickup unit_____at_____
10-40 turn in report at station or meet command officer
10-41 out to dictate report
10-42 meet officer
10-43 miscellaneous call out (at location)
10-44 gas
10-45 time check
10-46 wrecker request
10-47 phone your home
10-48 pick up prisoner (at location)
10-49 taxicab request
10-50 attempting to serve warrant at _____
10-51 follow up investigation at _____
10-52 check my office for messages
10-53 complete assignment quickly
10-54 transporting
10-55 a crowd is gathering (location & number)
10-56 request a detective
10-57 request an M.E.
10-58 traffic, road and weather report
10-59 contact the complainant
10-60 do not contact the complainant
10-61 subject in custody

1310	felonious assault	1410	armed robbery
1510	unarmed robbery	1710	purse snatching
2110	murder	2211	rape
3291	indecent exposure	3390	simple assault
4110	breaking and entering	4510	larceny
5440	shoplifting	6610	arson
6810	malicious destruction	6910	CCW (man with a gun)
7110	auto theft	8110	forgery or u & p
8620	possession of narcotics	8810	DUIL
8961	reckless driving	8821	liquor law violation
8830	drunk and disorderly	8840	prowler
8843	fight	8870	runaway
8902	kidnapping	8903	nuisance or obscene tx calls
8904	soliciting w/o permit	8907	bomb call or threat
9010	injured person	9012	ambulance request
9013	overdose	9030	fire
9040	sudden death	9140	alarm
9161	property check	9220	PI accident
9240	hit and run PIA	9260	PD accident
9280	hit and run PDA	9291	striking unattended vehicle
9310	family trouble	9330	noise disturbance
9440	missing person	9510	suspicious person/incident/vehic
9511	missing vehicle	9512	BOL (be on the look out)
9515	escapee	9520	trouble with suspect
9521	trouble with juvenile	9522	fireworks
9530	dog bite	9531	barking dog
9532	dog at large	9533	dead animal
9550	found property	9554	damaged property
9560	mental	9561	extra patrol
9565	litter	9567	assist citizen
9580	escort	9581	money transfer
9612	traffic violation	9620	traffic hazard
9621	blocked drive	9622	overtime parking
9624	48 hr. storage	9627	private property parking
9940	court	9960	serve subpoena
9970	transport jail to C or S	9971	transport S or C to jail
9972	vehicle transports	9980	break
9990	meal		

MISSOURI

DAVE(MO-009) has provided another exciting research report, this time on the St. Louis Fire Department. Monitoring the St. Louis Fire Department has always been one of my favorite pastimes, even more so when I first became interested in the hobby and lived in St. Louis during my youth. Dave has done an excellent job on this project and I am pleased to present his report on the St. Louis Fire Department.

ST. LOUIS FIRE DEPARTMENT COMMUNICATIONS SYSTEMS

The complex communications needs of this fire department are met with a proprietary cable network, with some 1400 street-corner fire alarm boxes and with a two-way radio systems comprising three base stations and 4-channel transceivers in each of 55 active firefighting and numerous auxiliary vehicles - systems for which the Fire Alarm Director is responsible. The accompanying list and map show the district boundaries, locations of fire apparatus designated by the engine company (pumper) number, auxiliary vehicles and basic radio system data.

This information and the description to follow are based on materials provided by the Box 8 Club of St. Louis and by Mr. R. Boxdorfer Fire Alarm Director, who graciously gave MO-002 and me a thorough tour of Fire Alarm Headquarters several weeks ago. This building, situated half-underground was completed in 1964 and is the control point for the radio system and the terminus for the box alarm and

intercom network which consists of 22 miles of cable, maintained by Fire Alarm and completely independent of telephone company circuits.

When a fire alarm box is pulled, relays and a red light are activated in one the alarm cabinets at Headquarters and signal the box number by the pattern of light flashes and noisy relay closures. The dispatcher decodes this signal and extracts the corresponding 3x5 index card which lists the full five-alarm assignment for that box. The "still alarm" dispatch is then simulcast over the radio (154.130 MHz) and over the wire-line intercom network connected to the appropriate fire station through switches operated by the dispatcher. The intercom dispatch is preceded by a siren-like wake-up signal which can be heard in the background of the radio dispatch via intercom speakers in the dispatch room.

For a telephoned alarm, the appropriate "still alarm" assignment of apparatus and the corresponding box number are usually extracted from the dispatchers' prodigious memory, or from a ledger book giving the apparatus and box number by street address. When alarms are received from hospitals, hotels, schools, large factories, warehouses and office buildings, the still alarm announcement is followed immediately by a "striking of the box", sending the full first alarm response before any report from the scene. Alarms subsequent to the first, are announced, as above, from the index card, while move-ups are left to the discretion of the dispatcher who can consult a lighted map to determine areas deficient of apparatus. A move-up company is identified with a paper tag bearing its number, which is hung on the intercom switch corresponding the company being replaced, and is dispatched as, e.g. "Pumper 12-10", meaning that pumper 12 is filling in for pumper 10.

Suppose now, that a street corner box has been pulled for a fire that will go into multiple alarms marked by a typical sequence of events: The "first-in" company, dispatched for the initial still-alarm, finds the building completely involved and , using the call-back chanel (154.010 MHz), asks for the "box." The dispatcher then announces the "striking of the box" and calls for the first alarm assignment which consists, usually, of three engine companies (pumpers), one or two hook and ladder companies, the battalion chief and a rescue squad. At this point, the police are contacted by Fire Alarm to provide traffic control. On arrival the battalion chief evaluates the fire situation and, if needed, calls for additional alarms, which summon forth additional engine and hook and ladder companies, battalion-, deputy- and assistant chiefs, fuel and shop trucks and service trucks with fresh air bottles. When the fire goes to the third alarm, all fireground communication moves from 154.010 to 153.950 MHz. The numerous agencies, groups and individuals which respond to major fires include gas and electric utilities, extra police for crowd and traffic control, Salvation Army and Red Cross*disaster-canteen units, the latter staffed by the Box 8 Club (152.180 MHz, units 5218-5220), city ambulances, EMS supervisors, the city's disaster communications van, the press, curious onlookers and fire buffs. Those groups not specifically requested by the Fire Department, such as the press and fire buffs, respond on the basis of the radio dispatch broadcasts. The ranking chief reports probable loss of the building as "condition doubtful" and control of the fire as "will hold." When the fire is fully controled, the chief releases the un-needed companies by asking Fire Alarm to "strike out the box." Released companies will declare their availability by "striking in service." The traditional alarm protocol and "striking" terminology stem from the days before wire or radio voice communications when all signaling depended on the alarm box and signal bells located in the fire stations and at headquarters.

Before turning to the details of the radio system, you should know that the characteristics of various fire alarm systems are the subject of several government publications (Subject Bibliography 076), federal and state legislation, and standards developed by Underwriters Laboratory and the National Fire Protection Association.

Each of the three base stations has a separate control panel at Fire Alarm Headquarters. For broadcasting alarms and communicating with fire apparatus, the dispatcher chooses the base station closest to the fire scene or that base receiving the strongest signal from the mobile unit. Fire Alarm can transmit on 154.130 and receive on 154.010 simultaneously, while the mobiles' 4-channel simplex transceivers usually transmit and receive on the call-back cannel: 154.010. When not transmitting, the mobile unit scans 154.130 MHz and the selected channel, so that dispatches are not missed while another channel is being used. All fire apparatus radios are equipped with telephone handsets, rather than microphones, due the high noise environment of most fire apparatus. In pumpers an auxiliary control head and handset and mounted by the pump controls, so that the engineer can communicate without leaving the controls. In snorkels and hook and ladder trucks the auxiliary control head is located at the base of the ladder. Fire Alarm maintenance trucks use 154.130 as the call-back, rather than 154.010 used by fire apparatus.

Lambert-St. Louis International Airport is located within St. Louis County but is considered city property with respect to provision of governmental services including firefighting and disaster preparedness. At the airport, dispatching comes through the airport telephone operator or from the control tower. When on the field for an emergency landing, for instance, the airport captain notifies Fire Alarm Headquarters on the usual call-back channel. However communications between St. Louis fire vehicles at the airport take place on 153.950. Air National Guard fire units use 148.200 MHz, and both maintain contact with the tower on the AM ground control frequency: 121.650 MHz.

Finally, Fire Alarm maintains a small number of portable units on 153.830 MHz for use by the Fire Marshall's office. There is much more that could be included here, but the narrative portion is already too long. Again, thanks to those who provided the information.

*(Red Cross: Also on 47.42 Mhz. + the Mobilephone channel listed.)

(Salvation Army: 35.920 Mhz.)

RADIO FACILITIES

Base Station, 330 Watts ..... City Hospital
1400 Lafayette

Base Station, 330 Watts ..... State Hospital
5400 Arsenal

Base Station, 330 Watts ..... H.G. Phillips Hospital
2601 Whittier

System Call Sign: KAG 632
Channel Guard Tone: 203.5 Hz

Mobile Channels:	F1 154.130 MHz	Dispatch
	F2 154.010 MHz	Call-back & Truck-to-truck
	F3 153.950 MHz	Fireground
	F4 154.280 MHz	Mutual Aid
	Hand Held 153.830 MHz	Fire Marshall

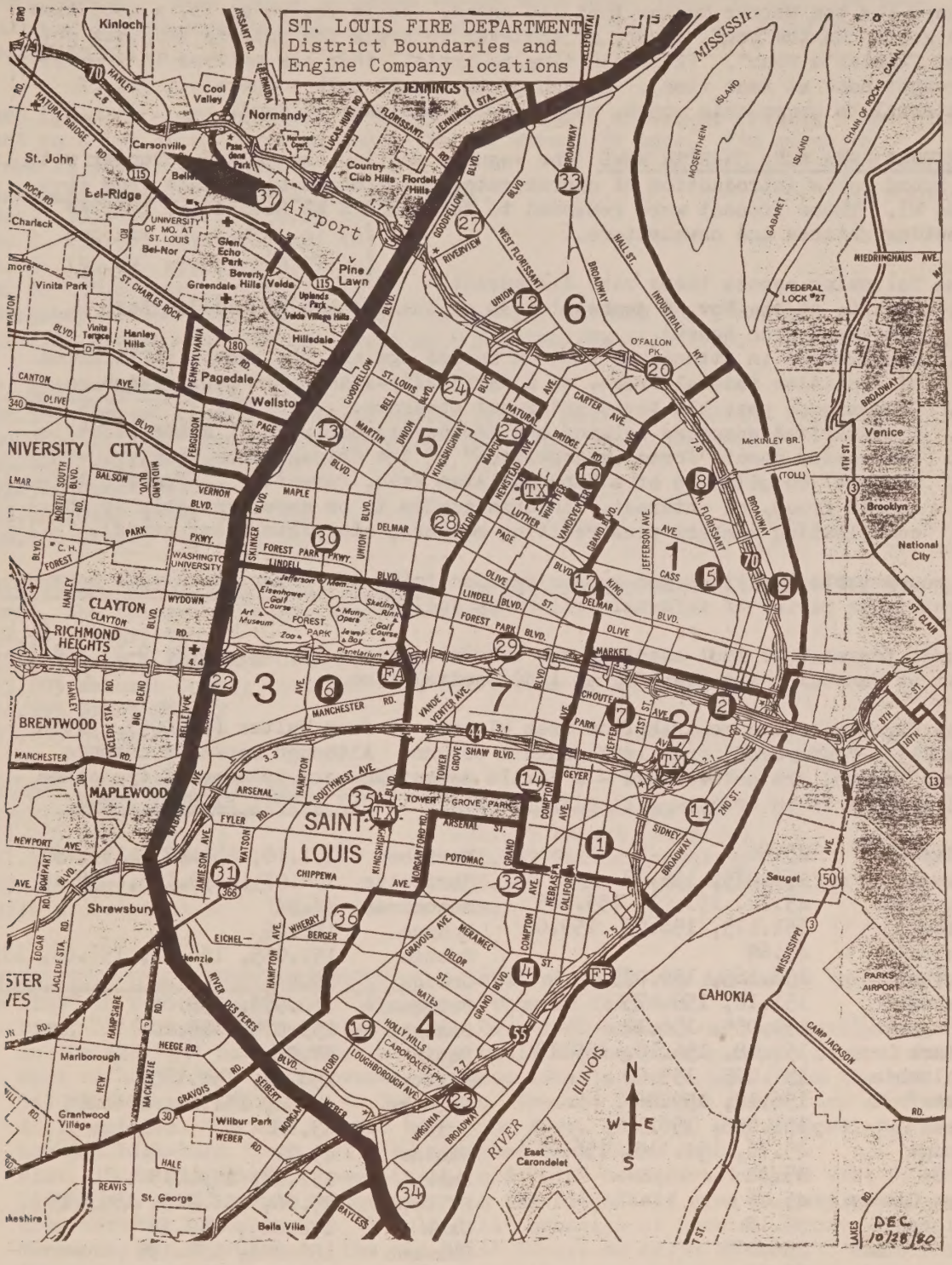
Mobile units scan F1 and selected channel 2, F2, F3 or F4.

FIRE DEPARTMENT RADIO ASSIGNMENTS (Cars)

FDD - Director of Public Safety
CFD - Fire Chief
800 - Assistant Fire Chief
801 - Battalion Chief, District 1
802 - Battalion Chief, District 2
803 - Battalion Chief, District 3
804 - Battalion Chief, District 4
805 - Battalion Chief, District 5
806 - Battalion Chief, District 6
807 - Battalion Chief, District 7
810 - Deputy Chief
811 - Fire Marshall
812 - Equipment Superintendent
813 - Ch. Instructor, Fire Academy
814 - Assistant Fire Marshall
814A Fire Marshall's Office
815 - Instructor, Fire Academy
816 - Fire Dept. Photographer
817 - Assistant Chief Instructor, Fire Academy
818 - Disaster Communications Van
830A Assistant Physician
831 - Fire Department Chaplain
832 - Red Cross, Ned Fryer
833 - Red Cross, Francis Bruno
841 - Airport Chief
842 - Airport Captain

ST. LOUIS FIRE DEPARTMENT - ACTIVE APPARATUS AND FACILITIES

Pumpers 1 and 3, Squad 1, Car 802	2910 S. Jefferson
Pumpers 2 and 15, Snorkel 6	314 S. Tuckers (12th)
Pumper 4, Car 804	4425 S. Compton
Pumper 5, Hook & Ladder 2, Squad 2, Car 801	2123 N. Market
Pumper 6	5749 Manchester
Pumper 7, Hook & Ladder 8	2600 La Salle
Pumper 8	1501 Salisbury
Pumpers 9 and 25, Hook & and Ladder 13	814 La Beaume
Pumper 10	4161 Kennerly
Pumpers 11 and 16, Hook & Ladder 1 Foam Truck 2, Fuel Truck 2	2224 S. 7th
Pumpers 12, Car 806	5124 W. Florissant
Pumper 13, Hook & Ladder 3	1400 Shawmut
Pumper 14	3523 Magnolia
Pumper 17	3238 M.L. King Drive
Pumper 19	6624 Morganfort Road
Pumper 20, Hook & Ladder 12, Foam Truck 1	5600 Prescott
Pumper 22, Hook & Ladder 16	1229 Mc Causland
Pumper 23, Hook & Ladder 11	6500 Michigan
Pumper 24	5245 Natural Bridge
Pumper 26, Hook & Ladder 9	4520 Margaretta
Pumper 27, Hook & Ladder 7	5435 Partridge
Pumper 28, Hook & Ladder 15 Fuel Truck 3, Car 805	4810 Enright
Pumper 29, Snorkel 5, Car 807	200 S. Vandeventer
Pumper 30	541 De Baliviere
Pumper 31	4408 Donovan
Pumper 32, Hook & Ladder 14	3500 S. Grand
Pumper 34	8227 S. Broadway
Pumper 35, Hook & Ladder 10, Car 803	5450 Arsenal
Pumper 36, Hook & Ladder 4	5000 S. Kingshighway
Pumper 33	8300 N. Broadway
Pumper 44, Squad 49, Airport Car 42	Lambert Airport
Fire Boat, manned by Squad 1	Foot of Gasconade
Fire Alarm Headquarters	4971 Oakland
Repair Shop	1125 Spruce


ST. LOUIS FIRE DEPARTMENT
District Boundaries and
Engine Company locations
SAINT LOUIS
CLAYTON
RICHMOND HEIGHTS
BRENTWOOD
MAPLEWOOD
UNIVERSITY CITY
Pagedale
Wellston
Pine Lawn
Jennings
Normandy
Kinloch
Cool Valley
Carsonville
St. John
Bel-Ridge
Charlack
Airport
Shrewsbury
Mariborough
Grantwood Village
Wilbur Park
St. George
Bella Villa
East Carondelet
CAHOKIA
Sauget
Venice
Brooklyn
National City
Parks Airport
Mississippi River
Illinois River
DEC 10/28/80

Greetings from the "Land of Lincoln". Spring is just around the corner here in the midwest. Time to get the house, yard , apt. or whatever back into shape for the warmer months that lie ahead. While you're at it, a good time to get up on the roof, tower, or whatever to check the antenna and coax out for "winter's wear". (Also the time to install that new antenna that Santa brought back at Xmas time). Enough of the small talk - there's a lot of material to cover this month, so on to the business at hand.

CHICAGO AREA RCMA CHAPTER NEWS The regular meeting was called to order with a round table introduction of approximately 24 members and guests from IL and WI. Those present were reminded to send SASE's as needed for chapter meeting notices and newsletters.

The following agenda items were discussed:

1. Results of the Nov. 9 members' tour of the Chicago PD headquarters (informal open house).
2. The members in attendance went on record against the recent publication of sensitive federal freqs. in a nationally-read radio publication.
3. Comments on possible tours and guest speakers.
4. I summarized upcoming columns and new developments in IL state radio.
5. Discussion about "formal recognition" of the Chicago Area Chapter.
6. Members' compilation of a "Chicago Area Freq. Directory". (Members to submit freqs. of interest. Finished copies to be made available to the contributing members plus visiting members, etc. from other areas).

A round-table questions and answer session followed. After the supper hour break, the period of informal fellowship followed.

Don't forget that 1981 sessions are scheduled for 4-11, 6-7, 8-8, 9-27 and 11-21 all at Nancini's and starting at 1330 Central Time.

The first sizeable contribution from WI came in from Walter (WI-009). It's really a "carryover" from last month's column. Although repeater outputs (and inputs) are not defined - a little detective work by some of the other WI members is in order. I'll simply entitle it "WI COUNTY HIGHWAY FREQS."

Adams	45.68
Barron	156.075, 159.12
Bayfield	45.72, 151.01, 159.045
Brown	151.115, 156.06, 159.00
Buffalo	45.68
Burnett	156.165, 159.075
Calumet	151.10, 159.075
Chippewa	151.055, 156.12
Clark	151.18, 156.18, 159.18
Columbia	151.025, 159.00
Crawford	156.12, 159.06
Dane	151.055, 156.12
Dodge	45.76, 151.115, 156.06
Door	45.48
Eau Claire	45.76
Florence	37.18
FondDuLac	156.075
Forest	39.98
Grant	150.995
Green	156.18, 159.075
GreenLake	156.075, 159.12
Iron	151.025
Jackson	156.12, 159.135
Jefferson	156.24, 158.985
Kenosha	151.055, 156.105
Kewaunee	159.075, 151.085
LaCrosse	151.025, 159.00
Lafayette	158.82, 153.80
Langlade	151.025, 159.00
Manitowoc	159.165, 156.195
Marathon	151.10, 156.075, 156.195
Marinette	156.075, 159.105, 159.18
Menominee	37.92
Monroe	156.06
Oconto	151.055, 156.12, 156.06, 159.00
Oneida	39.82
Outagamie	150.995, 159.06
Ozaukee	156.075, 159.105
Pepin	37.94
Pierce	156.12, 159.135
Portage	37.94, 151.01, 156.195
Price	45.68
Racine	45.72
Rusk	151.13, 159.015
St.Croix	33.06, 156.225, 159.015
Sauk	156.045, 159.18
Shawano	156.225, 159.135
Sheboyagan	159.00, 151.025
Trempeleau	45.72
Vernon	37.90
Vilas	37.90
Walworth	33.02
Washburn	151.085, 159.00
Washington	151.13, 156.195
Waukesha	150.995, 159.06
Wood	453.25-458.25, 453.55-458.55
Winnebago	156.045, 159.18
Waushara	156.24, 158.985
Marquette	159.075

The city of Milwaukee also uses 156.12, 156.225, and 159.015 for "Highway Maintainence". Even though winter's pretty well over, there'll still be some action up WI for snowplowing, etc. Thanks are in order for an excellent contribution.

Mark (IN-014) - who "claims" to be quite busy with school activities - has sent on a lot of information about the Ft. Wayne, IN area. I'm going to break it down into stages:

FT. WAYNE P.D. CORRECTIONS AND ADDITIONS

Ch. 1 155.61 rptr. (159.03 in)
Ch. 2 155.535 rptr. (158.97 in)
Ch. 3 155.79 rptr. (159.21 in)
Ch. 4 155.67 rptr. (158.73 in)

Emergency Medical Service units are dispatched on P.D. Ch. 2 and are e/w all P.D. freqs. Ch. 3 is also used as a Tactical/Special freq.

FT. WAYNE LOCAL GOVT. FREQS.

158.760 "Green" (Board of Public Works, Humane Shelter, and city engineers).
154.085 "Yellow" (Radio Shop, Traffic Engineers, Board of Health).
155.115 "White" (Paging).
151.310 Parks Dept.
153.530 City water utility.
158.190 Street Lighting Dept.

NEIGHBORING AREA CIVIL DEFENSE FREQS. In addition to the statewide 155.025 freq., the following freqs. are monitored:

154.965 Howard County
155.085 Cass & Delaware Counties
155.805 Walbash County (not yet into service as of 11-1-80)
154.995 Grant County
155.895 Miami County

NEIGHBORING AREA COUNTY HWY. DEPT. FREQS.

150.995 Howard (rptr.) and Huntingdon (rptr.)
151.025 Cass (rptr.) 151.055 Wabash (simplex)
151.130 Allen (rptr.) 156.240 Fulton (simplex)
159.195 Kosciusko (rptr.) 156.180 Miami (rptr.-159.000 in)

Quite a contribution - thanks are in order.

- - - -

NEW ILLINOIS STATE POLICE DISTRICTS A total of three new districts have come "on line" in recent months. I'll outline them as follows:

1.. Dist. 17 (previously reported in the Dec. 1980 column) is temporarily based in the old "5A" headquarters at Peru until the new headquarters several miles east is completed. Area covered includes LaSalle and Putnam (from the old 5A) plus Bureau (formerly in Dist. 7). Present low-band freqs. are 42.60 base/42.70 mobiles. The old 154.920 high-band freq. (for 5A) was dropped. New low-and high-band freqs. will be assigned at a later date.
2. Dist. 18 is temporarily based in the old "11A" headquarters just west of Litchfield until a new headquarters in the Litchfield area is completed. Area covered includes only the old "11A" counties of Greene, Jersey, Macoupin, and Montgomery. The old "11A" freqs. of 42.56 base/42.70 mobile/154.665 high band have been retained for the present time. New low-and high-band freqs. will be assigned at a later date. NOTE: This new district was previously "forecasted" in the August 1980 Newletter.
3. Dist. 19 is based in the recently constructed old 12A headquarters just west of Carmi. Area covered includes the old 12A counties of Wayne, White, Wabash, Edwares and Hamilton plus Saline and Gallatin (formerly in Dist. 13). A new low-band freq. of 42.34 has been placed into service (replacing old 12A freqs. of 42.52 base/42.72 mobile). The old 12A high band freq. of 154.680 has apparently been dropped, with a new freq. to be assigned at a later date.

Thanks are in order to Tom (IL-030), Mike (MO-002), Ken (IL-069), and Chuck (IL-141) for providing the necessary details to make this contribution possible.

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NORTHEAST IL FIRE COMMUNICATIONS SCHEME A member who asked to remain anonymous has submitted information about a revised communications plan. "There is a plan, currently being implemented in stages, to organize fire radio communications in the entire northeast IL area - from Chicago to the WI border and as far west as Rockford. Currently, there are many loose organizations of stations on a common freq. and many more stations (depts.) on their own freq. - either on fire band or local govt. (almost exclusively VHF high band)."

"The plan calls for dividing northeast IL (an area) into 6-10 dists., and each dist. into 4 quadrants, each quadrant having a common dispatch/operating freq. shared by 4-10 depts. Unit designations are then assigned, using a common scheme such that a given piece of apparatus can be identified as to quadrant, dept., and type of apparatus as well as its own unique identifier supplied by the owning dept."

One of the first "dists." to start implementing this changeover is Lake County. Not all of the depts. shown in the following organization chart are using the freqs. shown. Many of the smaller depts. use 154.400 rptr. (153.890) thru the common Libertyville rptr. Other depts. are on other freqs. shown and will switch.

LAKE COUNTY

QUAD. #1//NORTHEAST 154.325

12 Bonnie Brook
13 Gurnee
14 Newport
15 N. Chicago
16 Waukegan
17 Wintrhop Harbor
18 Zion

QUAD. #2/NORTHWEST 154.400

21 Antioch
22 Fox Lake
24 Lake Villa
26 Round Lake
27 Grays Lake

QUAD. #3/SOUTHWEST (?)

32 Lake Zurich
34 Wauconda
36 Barrington
37 Long Grove

QUAD. #4/SOUTHEAST 154.430

41 Countryside
42 Lake Forest
43 Mundelein
44 Knollwood
45 Lake Bluff
46 Libertyville
47 Deerfield
48 Vernon

Unit designations: East unit has a standard designation useful during mutual-aid operations. Identification according to a Q-D-T-U plan. Q=Quad., D=Dept., T=Type of Apparatus, U=Unit # (assigned by the dept. according to their need.)

Type of Apparatus Codes:

0 Administractive, Command
1 Engines
2 Engines
3 Trucks
4 Ambulances, MICU's
5 Squads
6 Tankers
7 Grass/Field Fire Apparatus
8 Fire Prvention/Investigators
9 Motor Pool

Examples: On the radio, the CHIEF (T=0) of GURNEE (Q=1, D=3) would be called "1300" AMBULANCE 1 (T=4) from Vernon (Q=4, D=8) would be called "4841". TRUCK 5 (T=3) from MUNDELEIN (Q=4, D=3) would be called #4335." However, on local calls, the quadrant designation is usually dropped, so the Vernon ambulance would be called "841".

Finally for mutual aid calls, the district depts. each make up "running cards" with box numbers just like the big city depts. do. Then, when the chief officer at the major incident needs mutual aid assistance, the response he'll get is pre-planned according to "MABAS" (Mutual Aid Box Alarm System"). A request for a second alarm for Box X will bring pre-designated units from surrounding towns. On mutual aid operations, all apparatus switches to the 154.265 common NIFERN (Northern IL Fire Emergency Radio Network) freq. "MABAS" primary dispatch station for Lake County is Lake Forest with backup at Mundelein.

- - - -

CHICAGO F.D. 800 MHZ OPERATIONS Jeff (IL-064) passes on the following information as received from a radio technician who is involved with the system installation: "The system has been operational for 2 to 3 months (at time of writing). The eqpt. has been installed - including some type of teleprinter in the stations and in the battalion chief's buggies.. There is a total of 5 freqs. with one being reserved for data transmissions. (Freqs. are assumed to be those listed in Police Call - namely 851.9125, 851.9375, 852.8625, 852.9125, and 852.9375.) Some type of simulcasting (to old VHF high band freqs.?) is believed to be in operation."

- - - -

OGLE COUNTY, IL SHERIFF MOVES TO UHF A new rptr. operating on 453.100 handles all sheriffs dept. traffic. Local law enforcement agencies dispatched thru the sheriff's dept. can be found on the old 39.50 freq., as is contact with state police and state conservation units. The other 39MHZ freqs. (39.32 and 39.66) appear to have been dropped. Information received from Bob (IL-101).

CORRECTED C.T.A. 470 MHZ FREQ. ASSIGNMENTS Mike (IL-044) sends on revised assignments to the November, 1980 Newsletter:

470.9875 Control and ?
471.0375 L Trains - Congress/Douglas/Milwaukee line
471.0625 L Trains - Lake/Dan Ryan line
471.0875 L Trains - Ravenswood/Evanston Exp./Skokie Swift
471.1125 L Trains - Englewood/Jackson Park/Howard line

- - - -

With that last contribution, it's time to bring this column to a close.

Happy Monitoring!!

Back next month with more exciting monitoring topics. If you haven't written to myself or John yet, this would be a good time. And don't forget your local chapter!

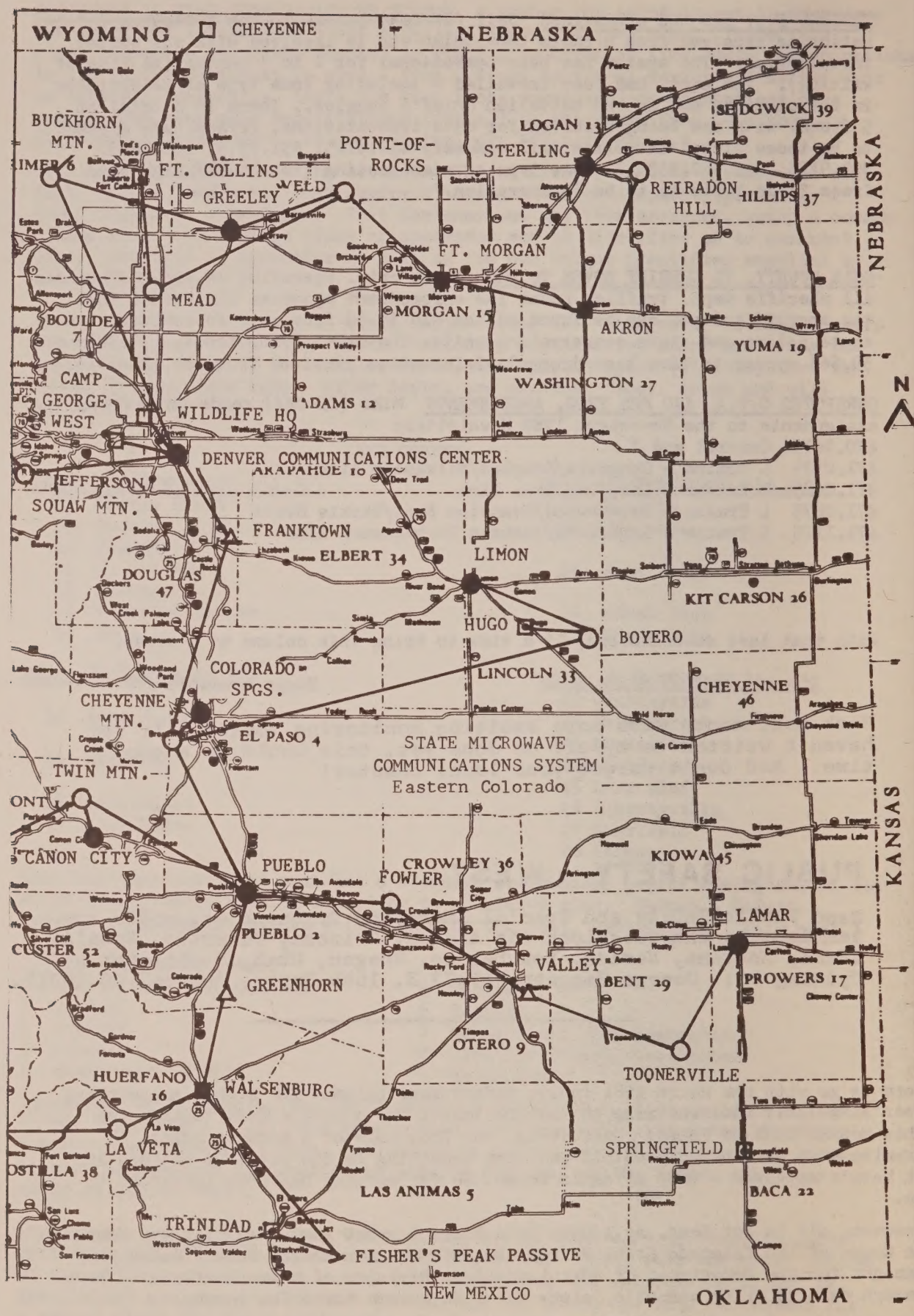
PUBLIC SAFETY - WEST

Send Public Safety and Special Emergency frequencies, radio system details and questions for Alaska, Arizona, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington and Wyoming to: George Hoggatt, 17473 E. 16th Drive, Aurora, CO 80011.

Here we go with the March 1981 Public Safety West Column. The member support has been singularly underwhelming to say the least. Not a single contribution for this month. COME ON FOLKS! Sent it in. One frequency or a hundred pages. I promise - it will be printed. If you sent something to the previous editors and it hasn't appeared - send it again to me. So far nothing has been forwarded to me.

However, all is not lost, as I have been busy. I spent some time with Lt. Henry Mc Gowan of the Colorado State Patrol and with Mr. Ron Ebert, Denver Radio Shop manager for the Department of Administration, Division of Communications. I have enough data to write a Public Safety Colorado column for a few months.

Lt. McGowan was kind enough to furnish a large amount of data. He also gave me the VIP tour of the Denver Communications Center. Details on the Colorado State Patrol next month, along with some photos for the Photo Department. Lt. McGowan and Mr. Ebert rate a very big thank you. Virtually all of the following data is from them.



COLORADO MICROWAVE COMMUNICATIONS SYSTEM

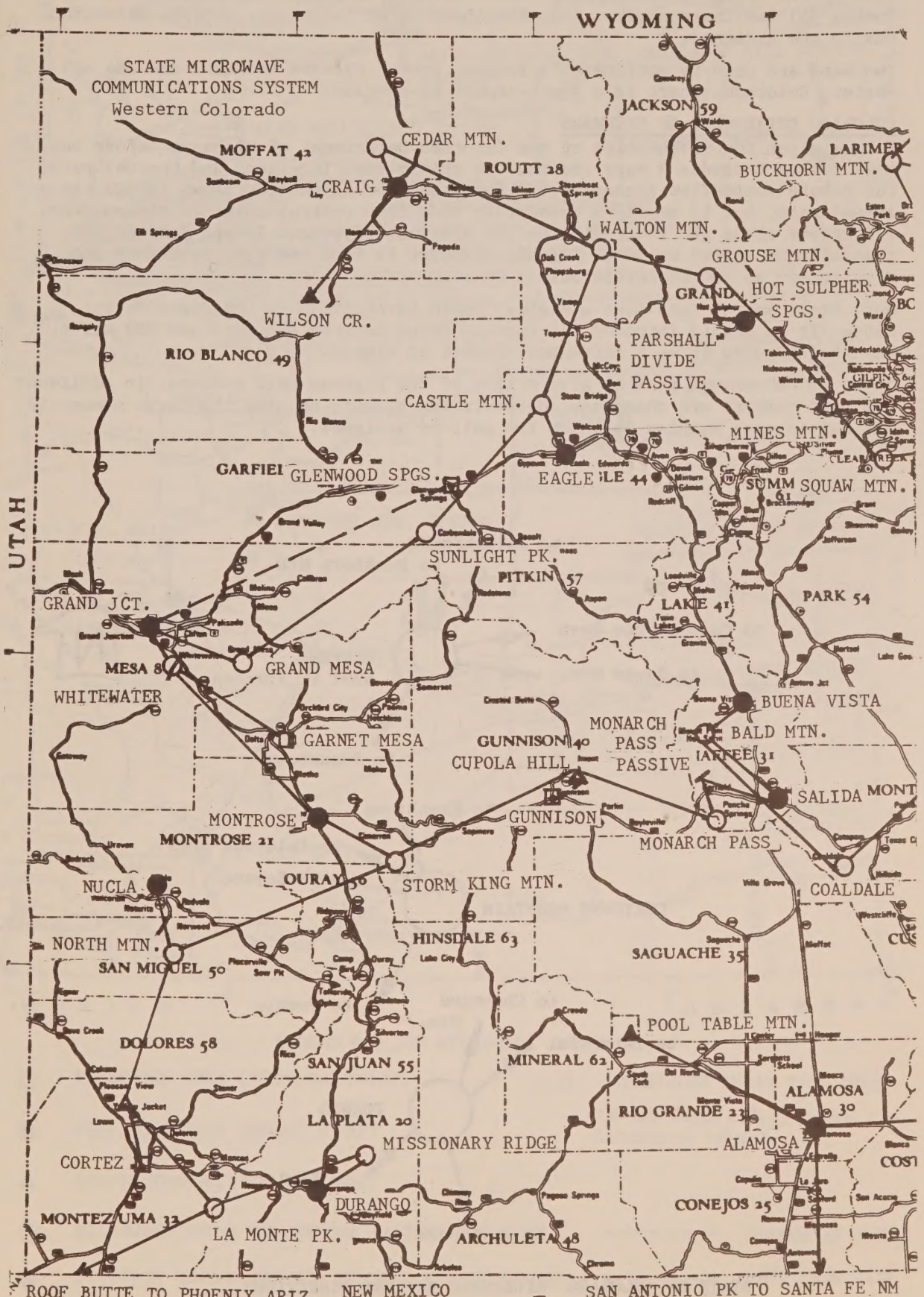
This system serves 3 basic purposes:

1. Control of remote transmitters
2. Telephone communications for dispatchers, some local police, sheriff's

departments, 8 State agencies and intercommunication links to 3 states (Arizona, New Mexico and Wyoming)

3. Data communications for the Division of Wildlife

This system is of interest to the monitor mostly because of the remote control function. However, the system is all radio except for a few land line links.



Most of the equipment is old tube type, operating in the 2 ghz range. A modernization program is underway. NE Colorado is the target now, SW Colorado was just completed. The system is somewhat lacking in reliability, particularly for telephone communications. Some of the links are over 50 miles and a heavy rain or snow wipes it out.

None of the relay sites has more than 3 directions except for Denver (5), Pueblo (4) and Cheyenne Mtn. (4). For these three locations, antenna direction charts are attached.

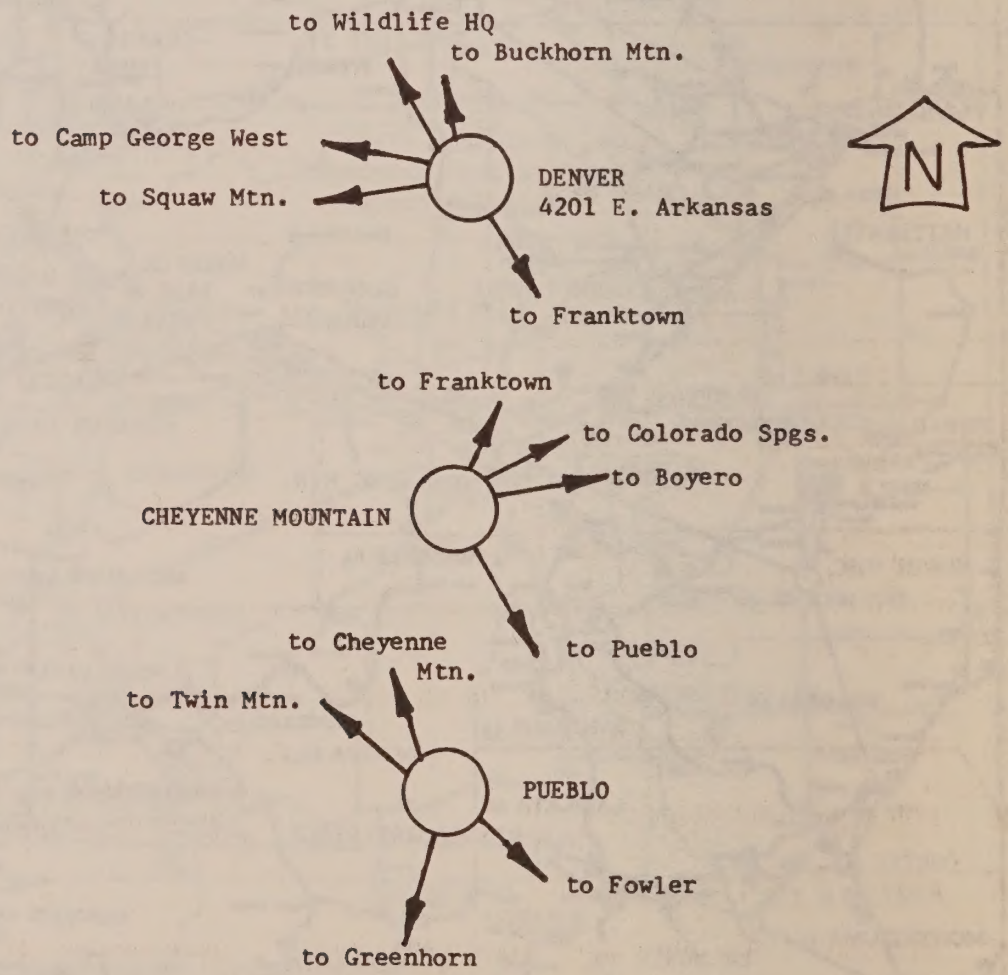
Two maps are used to outline this system, one of Eastern Colorado and one of Western Colorado. There is a small amount of overlap.

COLORADO DEPARTMENT OF HIGHWAYS

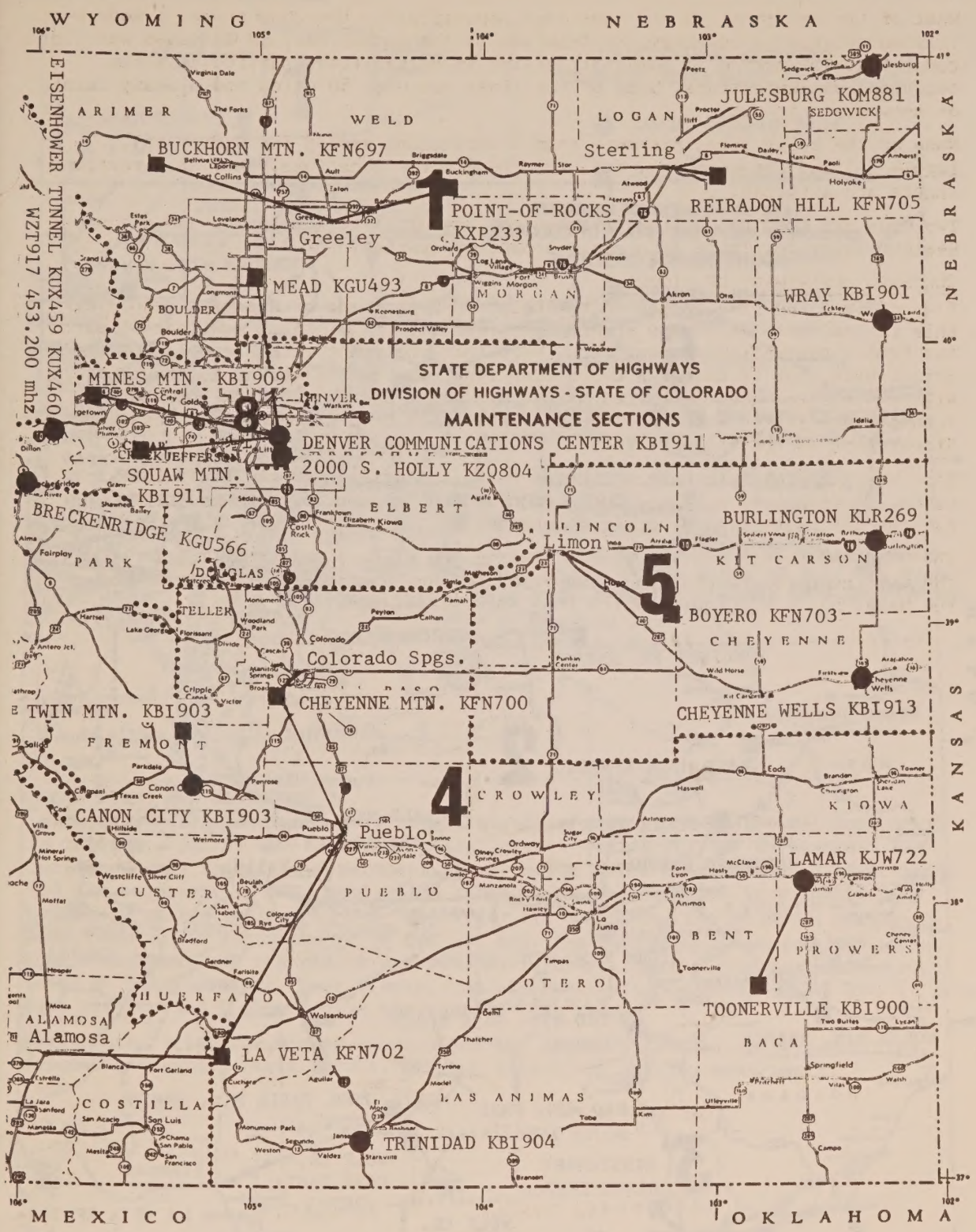
I have given the frequencies of the Colorado Department of Highways before but this issues includes 3 maps showing the transmitter locations and control paths for remote controlled transmitters. Note that the connection shown is NOT the actual path, but is mearly a connecting line from control point to transmitter. All remote sites are controlled by the Microwave System. Except for the transmitters listed with the legend, dispatch is from the same locations and dispatchers as the State Patrol.

Most State Patrol cars have a Highway radio in addition to the State Patrol radio. It is mainly intended for communication between CSP cars and DOH units, but the CSP uses it as a chit-chat channel at times.

There is not enough room to give a list of the Highway unit numbers. In addition the unit numbers are changing. However, new numbers or old, the first number is the Maintenance Section to which the unit is assigned.

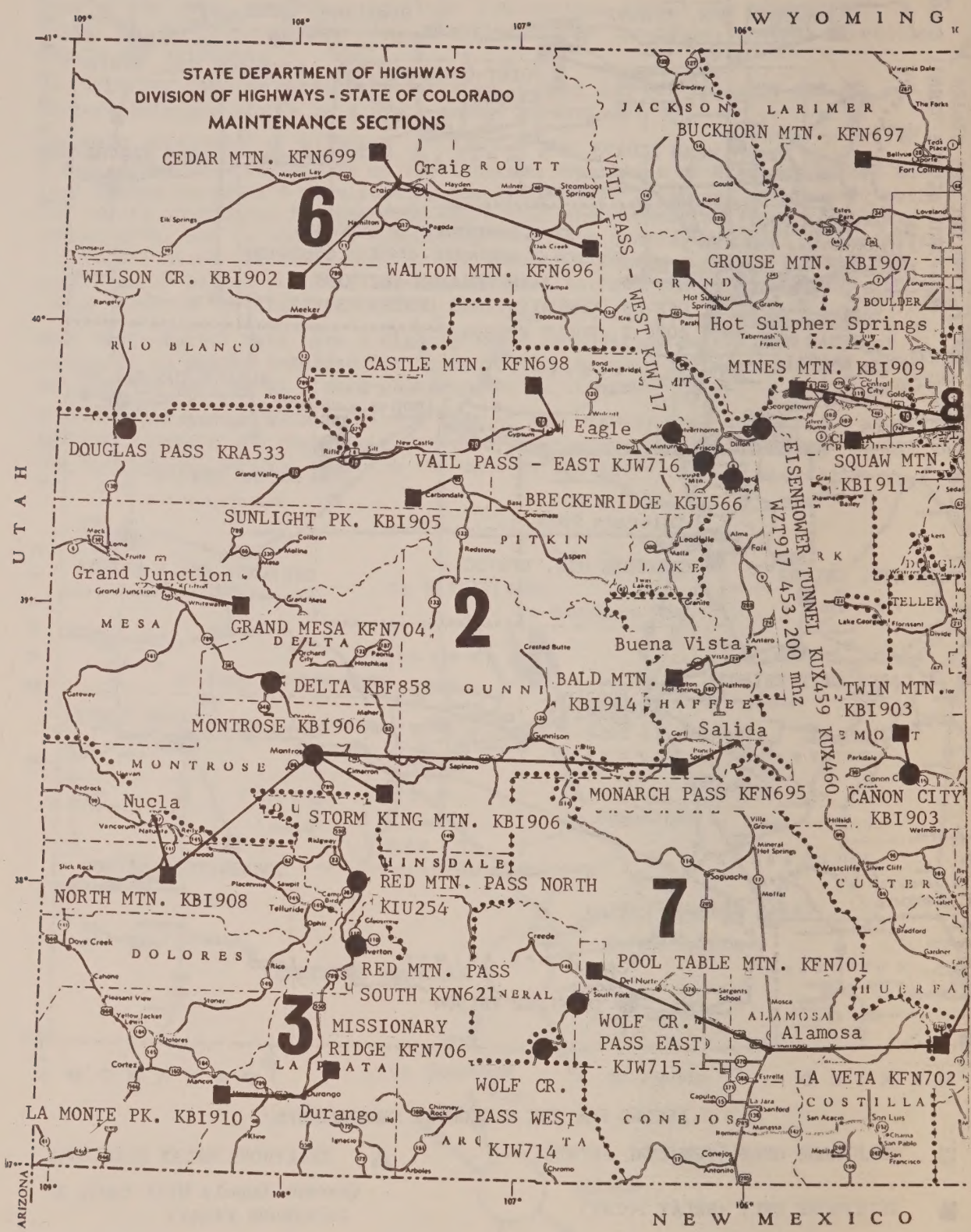


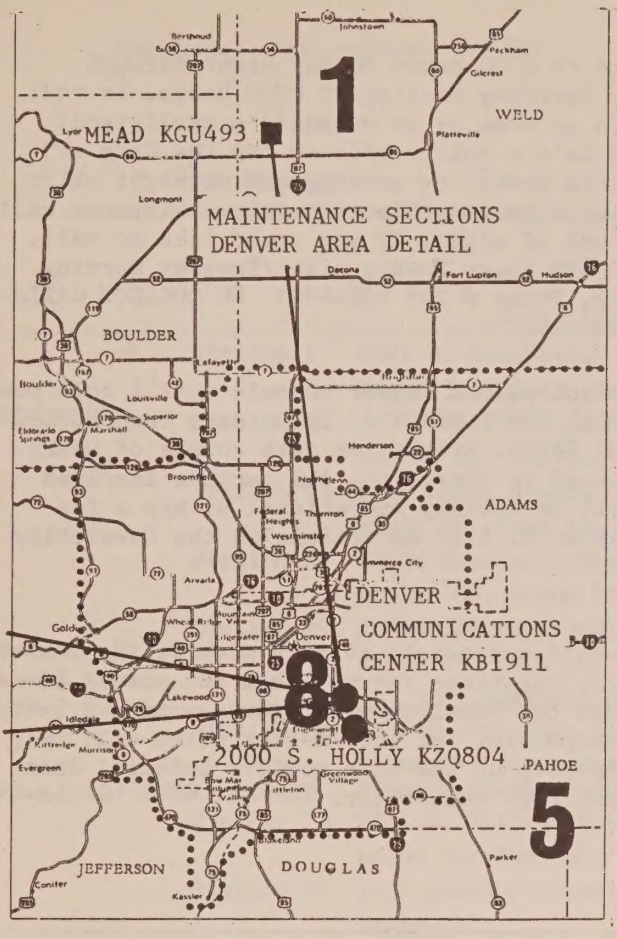
STATE OF COLORADO MICROWAVE ANTENNA DIRECTIONS



LEGEND FOR THE MICROWAVE SYSTEM MAPS

- □ TELEPHONE ONLY (TERMINAL POINT)
- ■ TELEPHONE ONLY (RELAY POINT)
- ▲ REMOTE TRANSMITTER SITE ONLY
- ○ MICROWAVE RELAY AND REMOTE TRANSMITTER SITE
- ● DISPATCH CENTER (REMOTE CONTROL AND TELEPHONE)
- △ TELEPHONE RELAY SITE ONLY (except Cupola Hill radio & telephone relay)
- ——— MICROWAVE PATH
- - - - - LAND LINE PATH


STATE DEPARTMENT OF HIGHWAYS
DIVISION OF HIGHWAYS - STATE OF COLORADO
MAINTENANCE SECTIONS
WYOMING
UTAH
ARIZONA
NEW MEXICO
CEDAR MTN. KFN699
Craig
ROUTT
JACKSON
LARIMER
BUCKHORN MTN. KFN697
6
WILSON CR. KBI902
WALTON MTN. KFN696
VAIL PASS - WEST KJW717
GROUSE MTN. KBI907
GRAND
BOULDER
Hot Sulpher Springs
RIO BLANCO
CASTLE MTN. KFN698
MINES MTN. KBI909
8
Eagle
DOUGLAS PASS KRA533
VAIL PASS - EAST KJW716
SQUAW MTN. KBI911
EISENHOWER TUNNEL KUX459 KUX460 WZT917 453.200 mhz
BRECKENRIDGE KGU566
SUNLIGHT PK. KBI905
PITKIN
LAKE
Grand Junction
MESA
GRAND MESA KFN704
2
Buena Vista
TELLER
DELTA
DELTA KBF858
GUNNI
BALD MTN. KBI914
CHAFFEE
TWIN MTN. KBI903
MONTROSE KBI906
Salida
MONTROSE
Nucla
MONARCH PASS KFN695
CANON CITY KBI903
STORM KING MTN. KBI906
HINSDALE
RED MTN. PASS NORTH KIU254
7
NORTH MTN. KBI908
CUSTER
DOLORES
RED MTN. PASS SOUTH KVN621
POOL TABLE MTN. KFN701
3
MISSIONARY RIDGE KFN706
WOLF CR. PASS EAST KJW715
Alamosa
LA VETA KFN702
WOLF CR. PASS WEST KJW714
LA MONTE PK. KBI910
Durango
CONEJOS
COSTILLA



MAINTENANCE SECTIONS
COLORADO DEPARTMENT OF HIGHWAYS

● Local Control Base

■ Remote Controled Base

——— Control Link

..... Section Boundry

BALD MTN. KBI914 - Transmitter name with call

Buena Vista - Control Point

BASE	MOBILE	TYPE	REMARKS
47.020	47.100	PH BAMO	Ch. 1
47.020	47.020	PH BAMO	Ch. 2

LOCATIONS NOT CSP DISPATCH

Eisenhower Tunnel (Tunnel Control)
Chain check stations for:
East & West sides of Vail Pass
East & West sides of Wolf Cr. Pass
North & South sides of Red Mtn. Pass
Douglas Pass
2000 S. Holly, Denver

CORRECTIONS AND ADDITIONS

In June 1980 I submitted a very long list of information on Colorado. Some of it is in error, partly due to typographical errors and partly due to changes. The Larimer County Sheriff's Department is now using their frequencies as advertised: 155.130 repeater, 154.710 mobile and control (Ch. 1), 155.565 is a mobile only frequency called channel 3. The identifier for Commerce City PD HQ on the Adams County Sheriff's Radio should be C20 not A20. The equipment shown for the Aurora Fire Department has changed. A new station is under construction on Reservoir Rd. south of Mansfield Ave. Most likely, the equipment will be moved again when it goes into service and I will revise the list at that time.

Next month, after the member submissions are covered, I will, space permitting, cover the Colorado State Patrol. All for this time, see you next month.

PUBLIC SAFETY - CALIFORNIA

Send Public Safety and Special Emergency frequencies, radio system details, and questions for California to: Eric Christensen (CA-LA-045), 3146 W. Ball Road, Apt. #35, Anaheim, CA 92804

****

Well, they did it to me now! As most of you probably know by know, I am employed as a full time police dispatcher for the University Police-Public Safety Department at California State University, Long Beach. What you don't know yet is that my shift got shifted as of 04 January 81. I USED to be the day shift dispatcher. Now, I get to "Howl at the moon" and other exciting things, as I am now the GRAVEYARD dispatcher here for the next SIX MONTHS! Oh well, who wants **a social life, anyway!**?

Since my new shift will be 2230 hours to 0700 hours Monday night through Friday night (that means getting off Saturday morning at 0700 hours. In fact, I'll even be relieved at that time to go home by my roommate's girlfriend! She's a dispatcher for CSULB PD, and he's a police officer for the City of Irvine in Orange County, California. As I will be working the midnight shift, which is VERY QUIET around here, it will be possible to receive telephone calls as long as things don't get totally out of sight. If you would like to call, please do so between 2300 hours and 0630 hours Monday night/Tuesday morning through Friday night/Saturday morning. Phone # 213 498-4101 NO COLLECT CALLS!!

Remember that Motorola CentraCom Communications Center console that I told you about? Well, would you believe it STILL ISN'T READY!!! There have been NUMEROUS problems which have prolonged the "GO DATE". Within the next couple of weeks, most of all the systems should be placed in operation. All parties involved actually believe that the console will be totally operational within a few weeks-HOPEFULLY! When it finally does work, I do an article in the Newsletter as I had promised earlier.

Would you please do me a favor?! I would appreciate it very much if the members who read my section could answer a few questions for me. When you answer these questions, you may send this page from the Newsletter, or you may send a letter or even just a post card with your responses. The information given will help me serve you better, and hopefully to keep up the high quality material that makes this the BEST section in the R.C.M.A. Newsletter. Thanks, ERIC (CA-LA-045)

R.C.M.A. PUBLIC SAFETY WEST-CALIFORNIA
Membership Survey

Club Number:_____ City of Residence:_____

Main listening interest:_____

Favorite article/feature printed so far in PSW-Calif:_____

_____Least favorite:_____

I would like to see more/less of:_____

Did you find the computer format section on the C.H.P. radio system interesting and/or useful? Comments:_____

Do you like/dislike the format in which most material is presented in PSW-Calif?

Do you have any suggestions (pro or con) overall?_____

_____

How do you rate PSW-Calif. with the rest of the Newsletter?_____

_____

FIRE DEPARTMENT-City of Los Angeles (Station Number/Equipment Listing)
From CRAIG (CA-VE-011): (Continued from last month)

	-Battalion 4 (Westchester/Venice)-
Station 5	6621 W. Manchester Avenue (Westchester)
	Wagon 5, Pump 5, Paramedic Rescue 5, Battalion 4
Station 62	3631 Centinela Avenue
	Engine 62, Salvage 62
Station 63	1930 Shell Avenue (Venice)
	Wagon 63, Pump 63, Truck 63, Paramedic Rescue 63
Station 80	10435 Sepulveda Blvd. (International Airport)
	Engine 80, Crash 80 (4), Crash Tender 80
Station 95	10010 International Road
	Wagon 95, Pump 95, Truck 95, Rescue 295, Crash Tank 95
	-Battalion 5 (Hollywood)-
Station 27	1355 N. Cahuenga Blvd.
	Wagon 27 (50' Snorkel), Pump 27, Truck 27, Squad 27, Paramedic Rescue 27, Service Utility 27, Battalion 5
Station 35	1601 N. Hillhurst Avenue
	Wagon 35, Pump 35, Truck 35, Paramedic Rescue 35
Station 41	1439 Gardner Street
	Engine 41
Station 52	1010 N. Van Ness Avenue
	Engine 52
Station 76	3111 N. Cahuenga Blvd.
	Engine 76, Foam 76
Station 82	1800 N. Bronson Avenue
	Engine 82, Rescue 82
	-Battalion 6 (San Pedro)-
Station 48	1601 S. Grand Avenue
	Wagon 48, Pump 48, Truck 48, Battalion 6
Station 53	438 N. Mesa Street
	Engine 53, Paramedic Rescue 53, Foam 53, Salvage 53
Station 79	18030 S. Vermont Avenue
	Engine 79
Station 85	Under Construction
	Engine 85, Light Water 85
Station 101	1414 25th Street
	Engine 101
Station 110	Berth #29, Fort MacArthur
	Fireboat 5

-Battalion 7-

Station 16	2011 N. Eastern Avenue (El Sereno)
	Wagon 16, Pump 16, Truck 16
Station 17	710 S. Santa Fe Avenue
	Wagon 17 (Heavy Wagon Battery), Pump 17, Truck 17, Battalion 7
Station 25	2927 Whittier Blvd.
	Engine 25, Salvage 25
Station 47	4927 Huntington Drive North
	Engine 47, Tank 47
Station 2	2127 E 1st Street
	Wagon 2, Pump 2, Truck 2, Paramedic Rescue 2

-Battalion 8-

Station 14	3401 S. Central Avenue
	Wagon 14, Pump 14, Truck 14, Paramedic Rescue 14
Station 15	915 W. Jefferson Blvd.
	Wagon 15, Pump 15, Truck 15, Paramedic Rescue 15
Station 21	1187 E. 52nd Street
	Engine 21
Station 30	1401 S. Central Avenue (To be closed)
	Engine 30 (High Pressure)
Station 46	4370 S. Hoover Street
	Engine 46, Paramedic Rescue 46, Battalion 8

-Battalion 9 (West Los Angeles)-

Station 19	12229 Sunset Blvd.
	Engine 19, Tank 19, Paramedic Rescue 19
Station 23	17281 Sunset Blvd. (Pacific Palisades)
	Engine 23
Station 37	1090 Veteran Avenue (Westwood)
	Wagon 37, Pump 37, Truck 37, Paramedic Rescue 37, Battalion 9
Station 59	11505 Olympic Blvd.
	Engine 59, Salvage 59
Station 69	15045 Sunset Blvd. (Pacific Palisades)
	Wagon 69, Pump 69, Truck 69, Rescue 269
Station 71	107 S. Beverly Glen Blvd.
	Engine 71, Tank 71

-Battalion 10 (Van Nuys)-

Station 39	14415 Sylvan Street (Van Nuys City Hall)
	Wagon 39, Pump 39, Truck 39, Squad 39, Paramedic Rescue 39, Battalion 10
Station 83	5001 Balboa Blvd. (Encino)
	Engine 83, Light Utility 83
Station 88	5101 N. Sepulveda Blvd.
	Wagon 88, Pump 88, Truck 88, Heavy Utility 88, Fuel Tender, Division 3, Tractor Company

R.C.M.A. Newsletter Back Issues

Back issues are again available for sale to members in the lots indicated below.

It should be noted the RCMA Newsletter is a club newsletter and it reflects the growth of RCMA. The early issues do not contain as many articles as the current issue. The Newsletter has evolved from a few mimeo pages to its current format under the leadership of three great editors Don Jones, Iden Rodgers, and Chuck Gysi, and the contributions of club members.

The reproduction of the articles is quite readable. To cut costs and allow to allow the possibility of binding all the reprints in a notebook, the format of later newsletters has been changed from saddle stitch to edge binding. This has changed the page order presentation, but not the content of the articles or the frequency lists.

To order: Indicate the lot(s) you are interested in on the form below. Fill in your name address and RCMA membership number (it is on your label). Make your checks or money orders payable to RCMA.

PRICES VALID UNTIL
JANUARY 1982

Lots (Months/year)	# of issues	Price	Order Amount
Sep 75-Jun/Jul 76 (No Oct or Nov published)	7	$ 2.00	_____
Aug-Dec 76 (No Oct published)	4	$ 3.00	_____
Jan-Jun 77	6	$ 4.00	_____
Jul-Dec 77	6	$ 4.00	_____
Jan-Jun 78	6	$ 5.00	_____
Jul-Dec 78	6	$ 5.00	_____
Jan-Jun 79	6	$ 6.00	_____
Jul-Dec 79	6	$ 6.00	_____

Send Check or Money Order
(no cash) to:

R.C.M.A.
Bill Ell, Secretary
2831 Hermanos Street
Pasadena, Ca 91107

Ship To:

Membership # _____

Name _____

Address _____

City _____

State _____ Zip _____

Station 90	7921 Woodley Avenue (Van Nuys Airport)
	Wagon 90, Pump 90, Truck 90, Crash 90 (2), Helicopter Company, Helitack Company, Helicopter Tender
Station 99	14145 Mulholland Drive
	Paramedic Engine 99, Tank 99
Station 109	16500 Mulholland Drive
	Engine 109, Tank 109

-Battalion 11 (Miracle Mile)-

Station 6	534 E. Edgeware Road
	Engine 6, Heavy Utlity 6, Division 1
Station 11	1819 W. 7th Street
	Wagon 11, Pump 11, Truck 11, Rescue 11, Battalion 11
Station 13	1206 S. Vermont Avenue
	Engine 13 (High Pressure), Paramedic Rescue 13
Station 20	2144 Sunset Blvd.
	Wagon 20, Pump 20, Truck 20, Paramedic Rescue 20
Station 29	158 S. Western Avenue
	Wagon 29 (50' Squrt), Pump 29, Truck 29
Station 32	Closed

-Battalion 12-

Station 24	9411 Wentworth (Sunland)
	Engine 24, Salvage 24
Station 74	7777 Foothill Blvd. (Tujunga)
	Wagon 74, Pump 74, Truck 74, Paramedic Rescue 74
Station 75	15345 San Fernando Mission Blvd. (Mission Hills)
	Wagon 75, Pump 75, Truck 75, Rescue 275
Station 77	8943 Glenoaks Blvd.
	Engine 77, Tank 77
Station 81	14123 Nordhoff Street (Arleta)
	Engine 81, Paramedic Rescue 81

-Battalion 12 (continued)-

Station 91	14430 Polk Street (Sylmar)
	Engine 91
Station 98	13035 Van Nuys Blvd. (Pacoima)
	Wagon 98, Pump 98, Truck 98, Paramedic Rescue 98, Battalion 12

-Battalion 13 (South Los Angeles)-

Station 33	6406 S. Main Street
	Wagon 33, Pump 33, Truck 33, Rescue 33, Division 2
Station 57	729 W. Manchester Avenue
	Engine 57, Battalion 13
Station 64	118 W. 108th Street
	Wagon 64, Pump 64, Truck 64, Paramedic Rescue 64
Station 65	1525 E. 103rd Street (Watts)
	Engine 65, Rescue 65

Station 66 1715 W. Florence Avenue
Wagon 66, Pump 66, Truck 66, Paramedic Rescue 66, Bus 66, Service Utility 66

-Battalion 14 (North Hollywood)-

Station 60 5320 Tujunga Avenue
Wagon 60, Pump 60, Truck 60, Paramedic Rescue 60, Service Utility 60, Battalion 14

Station 78 4230 Coldwater Canyon Blvd.
Engine 78, Salvage 78

Station 86 4305 Vineland Avenue
Engine 86, Light Water 86

Station 89 7063 Laurel Canyon Blvd.
Wagon 89, Pump 89, Truck 89, Paramedic Rescue 89, Fuel Tender 89

Station 97 8021 Mulholland Drive
Engine 97, Tank 97

Station 102 13200 Burbank Blvd.
Wagon 102, Pump 102, Truck 102

Station 108 12520 Mulholland
Engine 108, Patrol 108

-Battalion 15 (West Valley)-

Station 8 11351 Tampa Avenue (Porter Ranch)
Engine 8, Rescue 208

Station 18 12050 Balboa Blvd. (Granada Hills)
Engine 18

Station 87 10241 Balboa Blvd. (Northridge)
Engine 87, Paramedic Rescue 87

Station 70 Roscoe & Parthnia Streets
Wagon 70, Pump 70, Truck 70

Station 96 21800 Marilla Street (Chatsworth)
Paramedic Wagon 96, Pump 96, Truck 96

Station 103 18143 Parthenia Street
Engine 103

Station 104 8349 Winnetka Avenue
Engine 104, Salvage 104, Paramedic Rescue 104, Battalion Chief 15

Station 107 20225 Devonshire Street (Chatsworth)
Engine 107, Salvage 107

-Battalion 16 (Wilmington)-

Station 38 124 E. "I" Street (Wilmington)
Wagon 38, Pump 38, Truck 38, Paramedic Rescue 38, Rescue 238

Station 49 400 Matsonia Way, Berth # 194
Engine 49, Battalion 16, Fireboat 4

Station 40 406 Tuna Street (Terminal Island)
Engine 40 (50' Snorkel)

Station 112 Berth # 227, Terminal Island
Fireboat 2, Fireboat 3, Foam 112, Boat Tender

-Battalion 17-

Station 72 6811 DeSoto Avenue (Canoga Park)
Engine 72, Battalion 17

Station 73 7419 Reseda Blvd. (Reseda)
Wagon 73, Pump 73, Truck 73

Station 84 5340 Canoga Avenue
Engine 84

Station 93 19059 Ventura Blvd. (Tarzana)
Wagon 93, Pump 93, Truck 93, Rescue 293

Station 100 6751 Louise Street
Engine 100, Paramedic Rescue 100, Light Water 100, Division 3

Station 105 6345 Fallbrook Avenue (Canoga Park)
Wagon 105, Pump 105, Truck 105, Paramedic Rescue 105

Station 106 23004 Roscoe Blvd.
Engine 106

-Battalion 18-

Station 43 10234 National Blvd.
Engine 43, Rescue 43

Station 58 1556 S. Robertson Blvd.
Wagon 58, Pump 58, Truck 58, Battalion 18

Station 61 5821 W. 3rd Street
Wagon 61 (50' Snorkel), Pump 61, Truck 61, Paramedic Rescue 61

Station 68 5213 W. Pico Blvd.
Engine 68, Paramedic Rescue 68

Station 92 10556 W. Pico Blvd. (Rancho Park)
Wagon 92, Pump 92, Truck 92

****

THANK YOU CRAIG, for a FANTASTIC list of equipment as used by the Los Angeles City Fire Department. This along with the material that I presented via the L.A.City F.D. brochure should make us all EXPERTS on L.A.F.D. communications!? Right?!

For those of you who plan to send in the membership survey sheet, could you please comment on this 2 part write up on L.A.F.D. I hope that you enjoyed taking a "peek" at the L.A.F.D.'s radio center (O.C.D. - Operations Control Division), with those two photographs. I am sorry that they could not have been better, but all I had to work with was the pictures as printed in a black & white printed brochure provided by L.A.F.D. I wish that I had access to some actual pictures of the facility, but this was not possible.

UP COMING ARTICLES IN FUTURE ISSUES OF PUBLIC SAFETY WEST-CALIFORNIA:

April 1981 — R.D. Maps for the Long Beach Police Department
Forestry (CDF & USFS) frequencies sorted by FREQUENCY, some of which are UNPUBLISHED! Forestry aircraft frequencies included.

May 1981 — "VERDUGO" Fire Net frequencies as used by Burbank, Glendale and Pasadena Fire Departments. They've got some 12+ frequencies available!

June 1981 Commulative index of articles printed in PSW-California since July 1980 through June 1981.

THIS AND MORE TO COME IN FUTURE ISSUES! STAY TUNED (with your programmable scanner-of course!!!)

See you next month. Please take the time to send in the survey sheet if you will, THANK YOU. (Please indicate if you are desirous of seeing the article index similar to the one I did last year. Was last year's index helpful, or did you not find it helpful? COMMENTS?) Send responses to: 3146 W. Ball # 35, Anaheim 92804

BYE FOR NOW! 73's ERIC (CA-LA-045)

Marketplace

Gary M. Darcy
Column Editor

Members may advertise, free of charge, items wanted, items for sale, and items for trade that are associated with the hobby of monitor/utility radio listening. No dealer ads will be accepted for this column. RCMA assumes no responsibility for the outcome of any transactions between members, resulting from ads printed in this column. Send to: RCMA MARKETPLACE, c/o GARY M. DARCY, P. O. BOX 1329, PALMDALE, CA 93550. Please be sure to include your membership number.

Greetings RCMA members. I hope that all of you had a nice Christmas (or Chanukah, whichever the case may be) and that this new year brings the best for you and your families. My name is Gary Darcy, and for the last three months now I have been editing this column. I am not going to bore you with details about myself. If you have the RCMA SOCIABLE MEMBERS LIST for 1980 you will find me listed. My membership number is CA-LA-059. What I would like to do is discuss a little about this column and some guidelines I would like to ask that you follow.

1. Members may advertise free of charge, items wanted, items for sale, and items for trade, that are associated with the hobby of monitor and utility radio listening. This now includes SWL equipment, also. All ads will be run for no more than two consecutive months.
2. No dealer ads will be accepted for this column. Dealers wishing to advertise in the RCMA NEWSLETTER should contact the RCMA advertising manager.
3. When sending your ad copy to me, please keep it as brief as possible, but to the point. Indicate the exact make and model number of all equipment whenever possible. Additional information that you feel is pertinent in describing what it is you want to sell, trade, or acquire should also be included.
4. Please indicate your name, mailing address and RCMA membership number. If you wish the ad to contain your phone number, be sure to include it, with your area code.
5. PLEASE TYPE OR PRINT LEGIBLY. I am not very good at deciphering hieroglyphics or reading hen tracks.
6. Send your ads to me at the address indicated at the head of this column.

In the past a problem had occurred related to this column. Those of you who have the Feb/Mar 1980 NEWSLETTER handy might want to take note to a piece that Iden Rogers included at the bottom of page 64. In it he told about an item being advertised by one member and purchased by mail and not received by another member. RCMA is currently investigating the possibility that another such incident may have taken place. In order to combat this, I am going to institute the following additional guidelines:

7. All ads will no longer indicate shipment to the first person sending a certified check or money order, or anything of a similar nature. Members should contact the other member first before sending money.
8. Members wishing to place an ad may indicate in their ad that they will ship the item "C.O.D.". Both the U.S. Postal Service and United Parcel Service offer C.O.D. service.

If you will follow these guidelines, I should have no problem inserting your ad in the RCMA NEWSLETTER, and you should have a better chance at obtaining a response to your ad. Please understand that RCMA assumes no responsibility for the outcome of any transactions between members arising from ads in this column. At the same time however, RCMA does wish to be informed of problems that should occur, so that we may attempt to rectify them.

Now that I have shot my mouth off, or my typewriter in this case, I shall begin pecking away on the ads.

. . . . . .

FOR SALE: Bearcat BC-210. Used, however in good condition. $ 115.00. Includes all original equipment in carton. Contact: D. K. BASSETT (CA-OR-134), P.O. Box 3191, Orange, CA 92665. (2/81)

FOR SALE: Motorola R-1121/TRC-87 UHF aircraft receiver. 225.00-399.95 mhz frequency synthesized coverage in 50 khz steps. $ 475.00 includes shipping. Contact: LARRY BROWN (MI-011), 1526 Dixon, Flint, MI 48506 or phone 313-742-1868. (2/81)

FOR SALE: Bearcat BC-210. Very good condition with manual & antenna. $ 95.00 includes U.P.S. shipping. Contact: ALAN M. LEDER (NJ-084), 246 Lenox Ave., Paterson, NJ 07502. (2/81)

FOR SALE: Regency Digital Flight Scan. Good condition with manual & antenna. $ 175.00 includes U.P.S. shipping. Contact: ALAN M. LEDER (NJ-084), 246 Lenox Ave., Paterson, NJ 07502. (2/81)

FOR SALE: G.E. Mobile I Searcher 4-ch. tunable scanner, no crystals, VHF-Hi only, used very little. $ 25.00 or best offer, SASE. Contact: DAVID PAGE (ME-013), 8 Shirley St., Apt. 3-A, Skowhegan, ME 04976. (2/81)

FOR SALE: Sears 10-ch. crystal controlled scanner in excellent working condition, VHF Hi-Lo/UHF. $ 100.00 or best offer, SASE. Contact: DAVID PAGE (ME-013), 8 Shirley St., Apt. 3-A, Skowhegan, ME 04976. (2/81)

FOR SALE: Crystals (10.7 IF), one each of the following: 39.62 / 152.33 / 152.60 / 155.04 / 155.07 / 155.145 / 155.22 / 155.34 / 155.40 / 155.64 / 156.00 / 161.73 / 163.25. $ 2.00 each or all for $ 22.00, SASE. Contact: DAVID PAGE (ME-013), 8 Shirley St., Apt. 3-A, Skowhegan, ME 04976. (2/81)

FOR SALE: Regency crystals for the following frequencies: 33.74 / 39.10 / 41.25 / 44.74 / 44.90 / 47.34 / 47.62 / 146.61 / 146.67 / 146.70 / 146.73 / 147.06 / 148.15 / 148.175 / 151.01 / 151.07 / 151.055 / 151.175 / 151.535 / 152.09 / 152.57 / 153.95 / 154.055 / 154.115 / 154.175 / 154.31 / 154.34 / 154.37 / 154.65 / 154.665 / 154.695 / 154.71 / 154.74 / 154.755 / 154.785 / 154.80 / 154.935 / 155.07 / 155.025 / 155.16 / 155.22 / 155.34 / 155.67 / 155.91 / 158.79 / 158.82 / 158.88 / 158.97 / 159.15 / 162.55 / 460.250. $ 3.00 each or all 51 for $ 100.00. Will also trade for Bearcat 210 or 220 or a Regency ACT-W10. Contact: T. G. BANKS (ME-005), P. O. Box 3174, Lewiston, ME 04240 or phone 207-786-4110 after 6 pm EST. (2/81)

FOR SALE: Regency aircraft crystals for the following frequencies: 118.15 / 119.75 / 119.6 / 119.9 / 120.35 / 120.9 / 121.5 / 122.2 / 122.6 / 122.8 / 123.0 / 123.6 / 124.05 / 124.25 / 125.5 / 126.2 / 127.6 / 127.75 / 128.05 / 128.2 / 128.35 / 133.25 / 134.1 / 134.225 / 134.3 / 134.85. $ 5.00 each or all 26 for $ 100.00. Will also trade for a Bearcat IV, 210, or 220 or a receiver capable of receiving 225-400 mhz aircraft. Contact: T. G. BANKS (ME-005), P. O. Box 3174, Lewiston, ME 04240 or phone 207-786-4110 after 6 pm EST. (2/81)

FOR SALE: Tennelec Memoryscan MS-2 VHF Hi-Lo/UHF 16 channel programmable scanner. $ 150.00 will ship U.P.S./C.O.D. Contact: GARY M. DARCY (CA-LA-059), P. O. Box 1329, Palmdale, CA 93550. (2/81)

WANTED: SBE Opti-Scan. Should be in good working condition. I will return all inquiries. Contact: LINWOOD R. MIXER (VT-002), P. O. Box 693, Barre, VT 05641 or phone 802-479-0840. (2/81)

WANTED: Heathkit Q Multiplier or similar (not audio). Contact: LARRY BROOKWELL (CA-SD-024), 1826 Cypress St., San Diego, CA 92154 or phone 714-429-9728. (2/81)

WANTED: AN/URR-35C 225-400 mhz aircraft receiver in good working order, or any other type receiver capable of the 200-400 mhz band. Contact: CPL DAVID N. SILVA (MA-008), MABS-14 Crash Rescue, Stop 53, Cherry Pt., NC 28533 (2/81)

FOR TRADE: Will trade Bearcat 250 in good condition for 2 crystal scanners, prefer Bearcat or Regency. Both must be in good condition with any crystals. Need scanner for house and one for car. Contact: ROBERT LAZICH (WI-003) phone 715-677-3243. (2/81)

FOR SALE: Regency crystals for the following frequencies: 146.55 / 146.52 / 155.415 / 37.20 / 146.79 / 162.55 or will trade for 122.8 / 122.1 / 118.7 / 119.7 / 122.95 / 126.8 / 125.6. Contact: JEFF WESTON (AR-010), 102 Mt. Tabor St., Hot Springs, AR 71901. (2/81)

FOR SALE: Regency Flight Scan w/NY crystals. Bearcat BC-250. Best offer for either unit or both. Both in new condition. Contact: AL GREENMAN (NY-032), 2150 - 72 St., Brooklyn, NY 11204 or phone 212-256-4629 or 212-256-9045. (3/81)

FOR SALE: Bearcat Model SPU handheld scanner. 4-channel UHF w/assorted crystals. $ 50.00 postpaid. Contact: BRUCE PORTZER (WA-016), 6546 19 Ave. N.E., Seattle, WA 98115 or phone 206-522-2521. (3/81)

FOR SALE: Regency K-500. Only a few months old and very little use. 40 programmable and 545 preprogrammed channels. $ 275.00 or best offer. Contact: JIM BROADBENT (MA-024), 78 Squanto Rd., North Weymouth, MA 02191 or phone 617-337-5831. (3/81)

FOR SALE OR TRADE: Bearcat BC-210. Excellent condition. Minus mobile power cord and mounting bracket. Will sell for $ 200.00 or trade for Bearcat BC-4-6 handheld unit. Contact: RICHARD AVERY (CA-AL-020), 333 S. 3rd E., Rexburg, ID 83440 or phone 208-356-8447. (3/81)

FOR SALE: Sears VHF-UHF programmable scanner. 16 channels, 7 cards included. Base or mobile. $ 130.00 will ship. Contact: BILL MULLOWNEY (MA-029), 62 Woodlawn St., Everett, MA 02149. (3/81)

FOR SALE: Regency VHF Hi-Lo TMR8 8 channel scanner. Base or mobile. $ 30.00 will ship. Contact: BILL MULLOWNEY (MA-029), 62 Woodlawn St., Everett, MA 02149. (3/81)

FOR SALE: Realistic DX-160 Communications Receiver w/speaker. $ 130.00 will ship. Contact: BILL MULLOWNEY (MA-029), 62 Woodlawn St., Everett, MA 02149. (3/81)

WANTED: UHF (450-470 mhz) scanning receiver, at least 4 channels, similar to the Regency ACT-C4 HLU, ACT-C4U, or TMR 8U. Prefer Regency, but may consider a Sonar scanning receiver. An excellent UHF receiver is a must. Contact: MIKE REDMAN (MO-002), P. O. Box 1177, St. Charles, MO 63301. (3/81)

FOR SALE: Sears 10 channel crystal scanner. AC-DC, 2 power cords, mobile bracket, 2 plug in antennas, manual. Has scan delay and lockout for each channel. Uses Regency type crystals. Used for 2 years, but in excellent condition. $ 75.00. Contact: LEWIS S. HARVEY (GA-008), 415 E. Hall St., Savannah, GA 31401. (3/81)

FOR SALE: Bearcat crystals for the following frequencies: 45.28 / 154.31 / 154.905 / 154.74 / 155.13 / 155.22 / 155.34 / 156.03 / 156.425 / 156.9 / 157.05 / 157.075 / 162.4. $ 1.00 each. Contact: LEWIS S. HARVEY (GA-008), 415 E. Hall St., Savannah, GA 31401. (3/81)

FOR SALE: Regency type crystals for the following frequencies: 31.1 / 42.02 / 48.18 / 152.03 / 152.63 / 153.59 / 154.085 / 154.19 / 154.31 / 154.34 / 154.74 / 154.68 / 154.8 / 154.905 / 154.935 / 155.055 / 155.13 / 155.16 / 155.22 / 155.34 / 155.94 / 157.05 / 157.075 / 163.53 / 165.235 / 167.635 / 460.025 / 460.20 / 460.325 / 460.40 / 460.475 / 463.00 / 468.00. $ 1.00 each. Contact: LEWIS S. HARVEY (GA-008), 415 E. Hall St., Savannah, GA 31401. (3/81)

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DEADLINE FOR MAY 1981 NEWSLETTER: FEBRUARY 28, 1981
DEADLINE FOR JUNE 1981 NEWSLETTER: MARCH 31, 1981

:

under 30 MHz

Chris Devendorf, Editor

Shortwave Utility

This column is for reporting RTTY, CW, MCW, SSB, AM and FAX reception reports, explanatory notes, articles and questions relating to frequencies below 30 MHz. Services covered in this column will be military, civilian aeronautical, coastal/maritime, SSB broadcast feeders, government, beacons, weather, voice markers, time/frequency stations, etc.--essentially everything except broadcast, CB and amateur radio. Send to: Chris Devendorf, 29261 Buckhaven, Laguna Niguel, CA 92677. If you need a Shortwave Utility report form, please enclose a SASE with your request.

Well, business is picking up here at the Utility room. More new contributors this month. I know there are lots more of you out there, so why not drop me a line and let the readers know what you think of your new radio, antenna, RTTY converter or whatever. While you're at it, why not drop a couple of reception reports into the envelope before sealing it up.

INFO

COASTAL STATION KFS-SAN FRANCISCO

Station KFS is operated by ITT World Communications. Its transmitters are located in Palo Alto, California and are remote controlled from an operations center at Point Lobitos.

Assigned MF Frequencies:	436	476	500			
Assigned HF Frequencies:	"A"	4274	6365.5	8558.4	12844.5	17026 22425
	"B"	6348	8444.5	12695.5	17184.8	22515

Traffic List: 0130 / 0330 / 0530 / 0730 / 0930 / 1130 / 1330 / 1530 1730 / 1930 / 2130 / 2330Z

Weather: 0420 / 1620 / 2200 / 2300Z

Press: 0518Z (mondays)

DISASTER COMMUNICATIONS SERVICE

14 frequencies are allocated by the FCC for use by the "Disaster Communications Service". The service is defined as, "composed of both government and non-government radio stations, established to provide communications in connection with disaster and other incidents involving the loss of communications facilities normally available or demanding the establishment of communications facilities not normally available."

CH-1	1750.5	(CW)	CH-8	1757.5	(CW)
CH-2	1751.5	(CW)	CH-9*	1761.5	(CW/AM)
CH-3	1752.5	(CW)	CH-10	1768.5	(AM)
CH-4	1753.5	(CW)	CH-11	1775.5	(AM)
CH-5	1754.5	(CW)	CH-12	1782.5	(AM)

CH-6	1755.5 (CW)	CH-13	1789.5 (AM)
CH-7	1756.5 (CW)	CH-14	1796.5 (AM)

* (CH-9 is authorized for "scene of disaster" only)

I would be interested in hearing from anyone who has copied any traffic on any of these circuits, or knows of their potential use in any part of the US.

INTERCEPTS

	Contributor		Primary Receiver	RTTY unit
BB	Bill Blomgren	IL-20	Drake SSR-1	Info-Tech 75
MC	Mike Chabak	AZ-23	Halicrafters HQ-180	
CD	Chris Devendorf	CA-OR-50	McKay DR-33	Info-Tech M-200E
MJ	Mike Jones	CA-LA-239	Sony CRF-1	Kantronics Field Day 2
RP	Ron Pokatiloff	IL-83	Sony ICF-2001	
AR	Al Ricciuto	NY-	McKay DR-22	
GR	Gary Russell	IL-	Drake SSR-1	
RS	Rickey Stein	NJ-1	Yeasu FRG-7000	Info-Tech M-200E
LS	Len Stock	CO-25	Yeasu FRG-7000	

Voice

2182	USB		0423	MIAMI RADIO (USCG) wkg Radio Pioneer	RP
	USB	11-16	0440	COMSTA BOSTON (USCG) announcing wx bcst on 2670	RP
2469	SSB	10-30	0645	Cuban telephone comms??	RP
2530	USB	10-30	0615	GALVESTON MARINE OP, TX w/notice to mariners	RP
2638	USB	11-17	0550	USCG Charleston, SC	RP
2670	USB	11-13	0404	COMSTA BOSTON (USCG) w/notice to mariners bcst	RP
	USB	11-13	0418	USCG Charleston, SC	RP
	USB	11-14	0635	COMSTA NEW ORLEANS (USCG) w/ weather bcst	RP
	USB	11-14	0636	COMSTA SAN FRANCISCO (USCG)	RP
	USB	11-16	0357	MIAMI RADIO (USCG) w/notice to mariners bcst	RP
2699	USB	11-1	0708	COMSTA NEW ORLEANS (USCG) wkg unk station	RP
4428.7	USB	12-13	0435	COMSTA SAN FRANCISCO (USCG) w/weather bcst	MJ
4731	LSB	12-2	0300	SAM 86972 wkg ANDREWS, Md-enroute Algeria	BB
	USB	12-4	0245	SAM 86972 wkg ANDREWS, Md-return from Algeria	BB
4746	USB	12-2	0505	MAC DILL, Fl (USAF) wkg HOFF 79 p/p to 21st AF	AR
4922	USB	12-9	0131	SOUTHWORTH wkg THUNDER BAY-Canadian telecom	LS
5211a	USB	12-10	0318	WAR42 Mt Weather, Va wkg HOPALONG p/p to Lamar	GR
5387	USB	12-5	0332	DUDE RANCH (USN) wkg USS TRIPPE with p/p	LS
5400	USB	12-3	1355	WUD7 USACE Rock Island, Il wkg WUD74 w/wx report	LS
5430	USB	12-18	0457	MARLIN 18 wkg MASTER 18 (unknown QTH)	MJ
5519	AM	12-16	0900	ANCHORAGE RADIO, Ak with aero weather	MJ
5696	USB	11-11	0532	MIAMI RADIO (USCG) wkg CG 1493 (also on 8984)	RP
	USB	11-12	0354	NORTHFORD RESCUE wkg CG 1437 (where?-ed)	RP
5700	LSB	12-2	0300	SAM 86972 wkg ANDREWS, Md-enroute Algeria	BB
	USB	12-4	0245	SAM 86972 wkg ANDREWS, Md-return from Algeria	BB
6206	USB	12-15	0120	NEW CAR BASE clg DELTA 1	LS
6506.4	USB	11-28	0523	MIAMI RADIO (USCG) wkg tanker ALLEGENCE	RP
	USB	11-28	0645	COMSTA HONOLULU (USCG) wkg vessel NORASEPUANA	RP
	USB	12-13	0324	COMSTA SAN FRANCISCO (USCG) wkg NOAA OCEANOGRAPHER	MJ
	USB	12-13	0330	VANCOUVER MILITARY, Canada wkg Port Delarane	MJ
6512.6	USB	12-1	0436	LPL3Ø General Pacheco Radio, Argentina w/sta ID	AR
6683	LSB	12-2	0300	ANDREWS, Md (USAF) wkg AIR FORCE 2	BB
	LSB	12-9	2240	ANDREWS, Md (USAF) wkg SAM 86970 p/p to BIRDSEYE	BB
	USB	12-10	0236	SAM 86970 wkg ANDREWS, Md-Sec. Muskie to Brussels	GR
6738	USB	12-15	0655	ELMENDORF, Ak (USAF) wkg AIR EVAC 3Ø8Ø2	MJ
6753	USB	12-15	0625	EDMONTON MILITARY, Canada w/aero wx bcst	MJ
6777	AM	12-15	0618	SPY STATION - YL SS 5-digit groups	MJ
6824a	AM	12-25	0401	SPY STATION - YL SS 5-digit(Att 694-6Ø)Final-0409	MC
6992	LSB	12-26	1638	BROADWAY CONSUMER 6ØY Green Valley, Az wkg BROADWAY CONSUMER 65AM San Gabriel, CA-Nat. Guard	MC
6996	USB	12-26	1545	AGA8TA Taegu AB, S Korea wkg AF6RI w-p/p (MARS)	MC
7555	USB	12-14	0345	AT&T New York, NY with voice marker	CD
7651	LSB	12-13	0356	VOA Greenville, NC-broadcast feeder	MJ

8241.5	USB	11-26	0530	ELPH vessel FAIRWIND clg Portishead Radio	AR
8740.6	USB	11-19	0143	WOO Oceangate Radio, NY wkg vessel ROTTERDAM	RP
8759.1	USB	12-15	0410	General Pacheco Radio, Argentina w/voice mkr	MJ
8882	A3H	11-27	0519	DAKAR Aero, Senegal wkg NIGERIA 397	AR
8968	USB	12-9	0248	LOCKHEED FLIGHT wkg 156 w/radio check	LS
8972	USB	12-6	0304	QF8Ø5 clg CROSSCUT (NAS Barbers Pt, Hi)	LS
	USB	12-10	0324	E8T (ship) wkg 3PX	CD
8973	USB	12-29	0123	NOVEMBER LAJES (USN) wkg A.R.M. w/coded traffic	MC
8984	USB	10-31	0610	BOSTON RESCUE (USCG) wkg CGC ALERT	RP
	USB	10-31	0626	CG 725Ø wkg COMSTA BOSTON, Ma	RP
	USB	12-26	2312	S.S. KAUAI (ship) wkg CG 1452 w/ SAR traffic	MC
8993	USB	12-3	2340	AD6I (unk QTH) wkg MAC DILL p/p to NORAD	BB
9014	USB	12-17	0810	SCOTT (USAF) wkth p/p to Metro	MJ
9027	USB	12-17	0820	CORNFIELD with SKYKING message (USAF-SAC)	MJ
10295	USB	12-14	0350	AT&T New York, NY with voice marker	CD
11182	USB	12-2	2041	TAILPIPE BRAVO (USAF) wkg SCOTT p/p to Pope CP	GR
	USB	12-6	0300	NW45Ø (USN) wkg SCOTT p/p to South Weymouth Ops	GR
	USB	12-6	1727	YAZOO 14 (USMC) wkg SCOTT p/p to YAZOO BASE	GR
	USB		2347	RAT 61 (USN) wkg SCOTT p/p to VR-51 Ops	GR
11228	LSB	12-14	2345	HEAD DANCER wkg RAYMOND 1 & 24 (USAF-TAC)	GR
12125	SSB	11-13	1805	XLM5Ø1 Winnipeg wkg XLM866 Sasaqua? w/telecom tfc	RP
12222	USB	12-8	2020	CIMARRON (USN) wkg AVENUE w/personal p/p	GR
12255	USB	12-10	1856	F9F wkg R8J (US Army RTTY training??)	GR
13204	USB	12-9	1833	BOOKSHELF wkg AUTO & NIGHT TRAIN (USAF war games)	GR
13205	USB	12-12	0300	NAIROBI, Kenya wkg KENYA 1Ø4 (Kenya Air LDOC)	GR
13218	USB	12-9	0320	ABNORMAL 1Ø (Vandenberg AFB) wkg AGAR 42	BB
13244	USB	11-25	1955	MAC DILL (USAF) wkg BONDY 77 p/p to FORMAT	AR
13247	USB	12-26	1409	SAM 1249Ø wkg ANDREWS, Md-enroute Los Angeles	MC
13288	A3H	12-8	1923	NEW YORK (ARINC) wkg SEABOARD 294	AR
13427.5	USB	11-29	1844	WEK53 New York, NY w/telecom traffic	RP
13772	LSB	11-29	1850	New York, NY w/telecom traffic	RP
13899	LSB	12-13	1310	AGAR Ø6 wkg ASHLEY 12 (USAF-SAMTEC)	LS
13950	LSB	12-3	0145	HR1MM USMAG Honduras wkg AHF4 Albrook, CZ	GR
14490	USB	12-5	2356	NS21S wkg AF1ØK (unknown network)	CD
15015	USB	11-28	2036	LORING (USAF) wkg Norwegian AF 6Ø3 p/p to Brunswick	LS
15091	USB	12-8	1745	RAYMOND 28 (Bergstrom AFB) wkg IDEAL 55	AR
17232.9	USB	11-7	1900	WOM Miami Radio wkg SUN VIKING, KANSASATTI, CHEMICAL EXPLORER	RP
17307.3	USB	11-30	1729	COMSTA PORTSMOUTH (USCG) w/High Seas Forecast	RP
18027	USB	11-29	1908	ANDREWS (USAF) wkg SAM 86972	AR
18666	USB	11-29	1525	ATLAS wkg FLINT 353 w/position report	LS
18990	USB	10-23	2212	BALBOA RADIO, CZ (USN) clg QUITO RADIO	RS
23265	SSB	10-31	1716	ANDREWS (USAF) wkg SAM 12671	RP
23403	USB	12-7	1530	ATLAS wkg 258 with radio check	LS

Morse

210	CW	12-17	0439	"BCY" beacon - Boise City, OK	LS
233	CW	12-17	0307	"OKS" beacon - Oshkosh, NE	LS
259	CW	11-29	0645	"YLP" beacon - Mingan, Quebec	AR
251	CW	11-29	0600	"ZQA" beacon - Nassau, Bahamas	AR
317	MCW	11-25	0433	"FTT" beacon - Guthrie. MO	LS
326	MCW	11-22	0447	"MCY" beacon - Mercury, NV	LS
343	CW	11-25	0712	"6R" beacon - East Farnham, Quebec	AR
379	CW	11-13	0610	"BRA" beacon - Broad River, NC	AR
381	MCW	11-27	0312	"MSA" beacon - Mount Pleasant, TX	LS
386	MCW	11-22	0337	"EQA" beacon - El Dorado, KS	LS
410	MCW	12-3	0423	"EGQ" beacon - Emmetsburg, IA	LS
4235	CW	12-21	0421	VAI Vancouver Radio, Canada, V mkr	MJ
4310	CW	12-21	0406	WNU Slidell Radio, Louisiana, CQ mkr	MJ
4525	CW	12-19	0437	NMO Comsta Honolulu, Hawaii, tfc list	MJ
6365.5	CW	12-22	1704	KFS San Francisco Radio, Calif., CQ mkr	MJ
6411.4	CW	12-20	0710	WOK Latana Radio, Florida, CQ mkr	MJ
6435	CW	12-20	0707	CLQ Havana Radio, Cuba, CQ mkr	MJ
6925.2	CW	12-20	0646	KKN5Ø State Dept Washington, DC, QRA mkr	MJ

SHORTWAVE UTILITY CONTINUED

6973a	CW	12-26	1433	"DDANUU" - slow morse, continuous repeat	MC
8478.4	CW	12-20	0602	FUF French Navy Ft de France, Martinique	MJ
8582	CW	12-22	1730	KLB Seattle Radio, Washington, CQ mkr	MJ
8586	CW	12-20	0555	WCC Chatham Radio, Massachusetts, V mkr	MJ
8666	CW	12-20	0405	KLC Galveston Radio, Texas, CQ mkr	MJ
8697	CW	12-20	0408	CFH Halifax Military, Canada, V mkr	MJ
12135	CW	12-23	0209	NAM USN Norfolk, Virginia, CQ mkr	MJ
12151a	CW	12-16	0420	"K" beacon - repeats every 5 seconds	MC
13142a	CW	12-29	0115	XXS (unk QTH), V mkr (weak station)	MC
13215.5	CW	12-26	2046	FUX French Navy Reunion Island, V mkr	MC
16919	CW	12-19	0315	VHP Navy Canberra, Australia, V mkr	MJ
17161.3	CW	12-22	0523	VIS6 Sydney Radio, Australia, traffic	MJ
18383a	CW	10-8	1502	OMZ MFA Prague, Czechoslovakia, "QRU"	RS
20569a	CW	10-22	1353	KRH5Ø US Embassy London, England, QRA mkr	RS
21807.5	CW	10-6	1440	possibly FSB67, INTERPOL Paris, France, EE tfc	RS
22396	CW	12-22	1852	CLA Havana Radio, Cuba, CQ mkr	MJ
22533	CW	12-22	0313	ZLB7 Awarua Radio, New Zealand, CQ mkr	MJ

RTTY

12208	66/850	12-25	0140	PZP Zanderij, Surinam, RY test	MJ
13086.7	66/	12-25	0240	Vladivostok Radio, USSR tfc to Warsaw	MJ
14850	/	12-24	0436	ZLZ2Ø Himatangi, New Zealand, coded wx	MJ
14989	66/425R	12-18	0027	TNL Brazzavile, Congo, RY test	CD
16373	66/425R	12-18	0012	(Unid sta) with coded wx	CD
16373.3	66/	12-20	1800	(Unid sta) with UPI news in EE	MJ
17491	100/	12-24	0514	ZLO Navy Irirangi, New Zealand clg CKN	MJ
18231	66/	12-25	2200	LRB39 SAPPORITI Buenos Aires, Argentina, SS nx	MJ
20962.9	100/	12-24	1825	AFC6BC wkg AGA8HI, Japan w/ telegrams (MARS)	MJ
23716.5	66/425	12-24	1742	WFG83 AFP New York, NY w/ EE news	MJ

THE BEACON GUIDE

The Longwave Club of America is a fellow full-member ANARC club. LWCA specializes in frequencies below 540 KHz. They have just published a terrific new frequency directory. If you have any interest in DXing the beacon band this publication is an absolute must! If you have any interest in frequencies below 540 KHz you would indeed benefit from membership in LWCA.

The first edition of the Beacon Guide was published in 1974 as an experiment to test the feasibility of computerizing radio logs. It was very successful, containing 2500 aircraft beacons (but no marine beacons) and it quickly sold out. After five years of laborious and painstaking research and compilation, the editors have come up with the most comprehensive listing of beacons in the world. Many government and public publications from several countries were used to compile and crosscheck this list of beacons. In addition, through personal contact, lists of private and offshore beacons which were not listed in any other publications available to the public were obtained. There are now over 5500 beacons (including marine, aeronautical, private, and offshore beacons) in this directory covering the Western Hemisphere from Asia to Australia to the Azores and from Alaska to Antarctica. The editors feel that while there are still a few unidentifiable beacons, 99% of the beacons that will be heard are in the Guide. Also, newly authorized beacons that are not yet on the air have been included. Updates to the Guide will be published in the LOWDOWN (monthly publication of LWCA), in Ken Stryker's "Lost and Found" column.

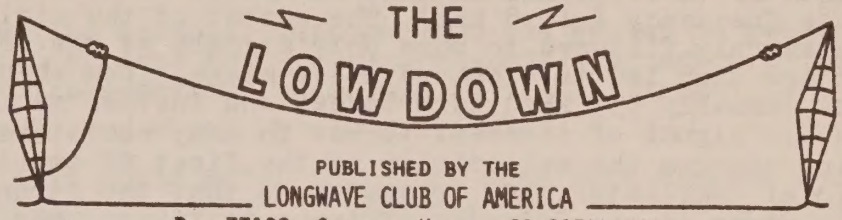
The Guide has been broken into three sections. The first section is the Domestic section which includes the US, Canada and Mexico. The second section is the Foreign section covering all remaining contries. The last section is an IDENT to frequency cross index for both sections.

The Beacon Guide covers the frequency range from 191 KHz to 532 KHz plus special Canadian and foreign beacons in the range from 1550 KHz to 1921 KHz. A Time Zone Conversion chart, a Morse code chart, and full directions for using the Beacon Guide are included. This book should really bring beacon DXing out of the Dark Ages of groping and guessing and make the hobby more enjoyable.

"The Beacon Guide" is available by mail for $7 US postpaid in North America. (Overseas shipments $7.50 US by First Class mail, $9.50 US by Airmail. No IRC's, foreign stamps or currency accepted. Only Overseas International Money Orders in US dollars payable through US banks.)

Send all checks and money orders , made payable to the Longwave Club of America, to Box 33188, Granada Hills, CA 91344 and please mention RCMA when you order.

Get tuned into longwave and LWCA! Membership in the LWCA is $10 per year by First Class mail anywhere in the world. This includes the monthly bulletin "LOWDOWN" and all updaters to the Beacon Guide as they are issued.



PUBLISHED BY THE
LONGWAVE CLUB OF AMERICA
Box 33188, Granada Hills, CA 91344 USA

Beginners ?????? Corner

Have a question? If you are a new scanner listener and don't understand something about monitoring that most everyone else seems to understand, send in your question. When possible, your question and the answer will be printed. No answers will be sent by return mail. Your name will not be printed. Write to: David E. Crowley, 7234 Balson Ave., University City, MO 63130.

Q. Are there any external speakers with built-in amplifiers to boost my scanner's audio signal above the noise in my car?

A I don't know. Such a device may be found among the numerous accessories intended for C.B. use. If any reader knows where a speaker-amplifier can be obtained, please let me know and I'll publish the answer.

Q. Can the red L.E.D. display on my scanner be changed to the newer green or blue fluorescent type?

A. No,the fluorescent display uses a higher supply voltage than is used for L.E.D.s.

Q. Does a VHF pre-amplifier improve the reception of mobiles in a mountainous area enough to just its cost (c.a. $50) ?

A As you can guess, a VHF pre-amp will boost both the desired RF signal as well as the atmospheric noise. If your reception is dominated by atmospheric noise, the pre-amp won't help. If the noise comes mostly from your receiving curcuits, then the pre-amp will help. Unfortunately, my only practical suggestion is to try out a preamplifier to see how it works.

Beginners tip for the month: Image Reception - Friend or Foe? Part 1.

As threatened in previous columns,your editor has worked out an explanation of image reception and its consequences for the monitor listener. I hope this makes sense.

Almost all modern radio receivers operate on the super-heterodyne principle, by which an incoming radio frequency (RF) signal is amplified and mixed with an internally generated local oscillater (LO) signal to produce an Intermediate Frequency (IF) signal from which the

receiver eventually recovers the audio signal of interest. Usually, the set is designed to produce an IF equal in frequency to the difference between the RF and LO frequencies.

For example, in a VHF receiver using an IF of 10.8 MHz, the weather channel at 162.550 MHz will be received when the local oscillator frequency is set to 151.750 MHz. The LO frequency can be set by a tuning dial, by intalling the proper crystal or by entering 162.550 on the keyboard. In addition to the desired difference (IF) frequency, the mixing circuit produces numerous other frequencies resulting from the combination of the RF input and local oscillator signals These others could include the sum of LO and RF frequencies and twice the LO minus RF (140.950 MHz in this example), as well as the negative difference frequency (-10.8 MHz). The output of the mixing circuit is usually sharply filtered to pass only signals at the IF (10.8 MHz) which are then led to a second mixer stage, from which a second IF signal (usually 455 kHz) is produced and further manipulated to yield the audio signal of interest to us. In many receivers, the tuning operation changes the selectivity of the first RF amplifier as well as the local oscillator (LO) frequency,so that the strongest signal fed to the mixer is the intended RF input at 162.550 MHz, for instance.

If the preceding is reasonably well understood then we have the conceptual ingredients needed to understand image reception. In our example above the IF signal at 10.8 MHz was produced in the mixer as the difference between the RF input at 162.550 MHz and the LO signal at 151.750 MHz. Note, however, that an IF at -10.8 MHz can be produced in the mixer by subtracting the LO signal at 151.750 MHz from an input RF signal at 140.950 MHz. It is important to understand, at this point, that a signal at "-10.8 MHz" has a frequency of 10.8 MHz and, for the purposes if this discussion, cannot be distinguished in the receiver from the "+10.8 MHz" IF.

Since the circuitry is essentially indifferent to the algebraic sign of the intermediate, or difference frequency (IF),a strong RF signal at 140.950 MHz will be received and heard from a radio ostensibly tuned to 162.550 MHz. In actual practice, these particular frequendo not pose an image problem, since the weather signal is usually much stronger than the 140.950 signal used only by a few naval installations. The important concept here, for understanding image reception, is that the intended RF signal and its image signal differ in frequency by exactly twice the receiver's IF. E.g. 140.950 MHz = 162.55 MHz - 21.60 MHz. Now we can summarize the discussion so far with a small dose of algebra in which:

F_s = Frequency of desired RF signal
F_i = Frequency of its image signal
F_{if} = Intermediate frequency (IF)
F_o = Local oscillator frequency

In regular reception;

	Formula	Example
(1)	$F_o = F_s - F_{if}$	151.850 MHz = 162.550 MHz-10.8 MHz.
(2)	$F_s = F_o + F_{if}$	162.550 MHz = 151.850 MHz+10.8 MHz.

In image reception;

	Formula	Example
(3)	$F_o = F_i + F_{if}$	151.850 MHz = 140.950 MHz+10.8 MHz.
(4)	$F_i = F_o - F_{if}$	140.950 MHz = 151.850 MHz-10.8 MHz.

Regular vs. image reception		Example
(4)	$F_i = F_o - F_{if}$	
(1)	$F_o = F_s - F_{if}$	
	$F_i = F_s - F_{if} - F_{if}$	140.950 MHz = 162.550 MHz-10.8 MHz -10.8 MHz.
(5)	$F_i = F_s - 2F_{if}$	

Almost all radio receivers are designed to avoid image interference by reducing the sensitivity of the initial RF amplifiers to signals other than the intended receive frequency. Fortunately for us, however the radios we use have rather poor image rejection characteristics, a definciency in design which we can use to our advantage. Suppose that we wish to receive 140.950 MHz, but our scanner only goes down to 146 MHz.Now, what we need is the RF frequency for which 140.950 is the image. All we have to do is add twice the receiver's IF to our desired image signal: 2 (10.8) + 140.950 = 162.550. If 162.550 MHz is unoccupied by the weather service, 140.950 can be received perfectly well by entering 162.550, thanks to the receiver's "poor" image rejection.

For a more interesting example, suppose that you wanted to receive 408.575 and your scanner does not go below 416.000 MHz. Again we need to find the in-band frequency for which 408.575 is the image:

$F_s = F_i + 2 \cdot F_{if} = 408.575 + 2 \cdot 10.8 = 430.175$ MHz.

That's it for now: next month we'll introduce some more algebra and show how image reception can cure interference in both crystal and synthesized receivers.

FEDERAL GOV'T and ★ MILITARY ★

Robert B. Grove, Editor

Send all Federal Government and Military frequencies (including those of military aircraft), radio system details, and related questions to: Robert B. Grove, Route 1-Box 156, Brasstown, NC 28902. Sensitive frequencies will not be published. Coast Guard material must go to the VHF Marine editor.

ANY BUDDING AUTHORS OUT THERE? Larry Brookwell, president of the San Diego DX'ers Club, is looking for an editor for the "Over Thirty" VHF/UHF section of his monthly newsletter. If you are interested, contact him by phone at 714-429-9728.

SENSITIVE FREQUENCIES The mail is still coming hot and heavy regarding the classic question, "To publish or not to publish". So far, the "To Publish" are ahead about ten to one! Their observations are that the frequencies are readily available in publication such as Tom Kneitel's "Top Secret Registry", Handler's "World Communications Guide" and so on. Obviously, the answer is simple: When an agency wishes to pass sensitive traffic, it should be encoded. A "signal one-A at point Charlie" won't mean a thing except to the intended recipient.

THOSE RUSSIAN WOODPECKERS Shortwave listeners have come to know and despise the incessant intrusion of the "Rat-a-tat-tat" pulse transmissions of the Russian OTHB (over the horizon backscatter) radar system. These powerful dynamos can disrupt HF communications and interfere with reception all over the earth. Now it seems that some enterprising hams have found a way to subdue the enemy!

According to a Russian informant, the transmitter can be shut down by sending "H 5 H" at exactly 10 words per minute in Morse code on the center frequency! Hams have been reporting some success, and we may be seeing some radical improvements on the shortwave bands!

MORE VHF/UHF SIGNALS

According to Tony (NJ-005), we may see some massive changes in radio systems in 1981. ATT land-line rate hikes are going to be exhorbitant, and many users will be considering the installation of repeater

links and shorter tie-lines. This can only mean more radio congestion coupled with more to listen to. . .we take the bitter with the sweet! Thanks, Tony.

SOLAR ACTIVITY HOTLINE NASA's Goddard Space Flight Center (Greenbelt, MD) has installed a "Solar Max Hotline". By calling 301-344-8129, interested persons may learn present sunspot number, active solar regions, solar flare data and other readings from the Solar Maximum Mission Spacecraft.

The useful information is intended as an aid for hams, astronomers, scientists, ground observers and shortwave listeners.

GIANT WALL MAP OF MILITARY INSTALLATIONS For those of you looking for a useful wall decoration, I would recommend the 4' x 5' relief map published by the Department of Defense which shows every major Air Force, Army, Navy and Coast Guard base in the United States! And only $2.25, too!

Write DMA Distribution Center, 5801 Tabor Avenue, Philadelphia, PA 19120 and ask for stock #8205XMILINST. The map is revised each March and is an incredible value.

SUPERSECRET FREQUENCIES? Those of us who delight in collecting frequencies over the years begin to notice one interesting fact emerge: After consolidating entries from a wide variety of sources, some blanks still remain in our lists. What are these phantoms? Do they have assignments? George (WI-004) brought this up the other day, and I would like to toss the question to our readers. The following frequencies are particularly annoying holes in our otherwise complete lists: 165.3625, 165.3875 (tentatively identified by Kneitel), 162.375, 162.425, 162.525, 162.7375, 162,7625, 162.7875, 170.775, 170.850, 170.950, 173.8875and 173.9375. These are legitimate allocations, yet my records show no assignments. Anyone out there have any good ID's?

George has another excellent question which some of our readers are bound to know the answer. When foreign diplomats and dignitaries come to the States with their own security personnel, how are frequencies coordinated for their communications? I had heard that personnel are provided with State Department or Secret Service walkie-talkies crystalled up on US assignments. Anyone know for sure? Are they allowed to use their own home-country assignments on a non-interference secondary basis? And what about American diplomats in foreign countries? How is that handled?

If anyone out there has good information, please let me know and I'll pass on this interesting trivia to our readers.

And now, let's take a look at some of this month's frequency contributors. We greatly appreciate the time and effort expended by our loyal contributors; won't more of you share your frequency lists? Thanks!

From GARY (IL-053) Chanute Air Force Base, Rantoul, IL

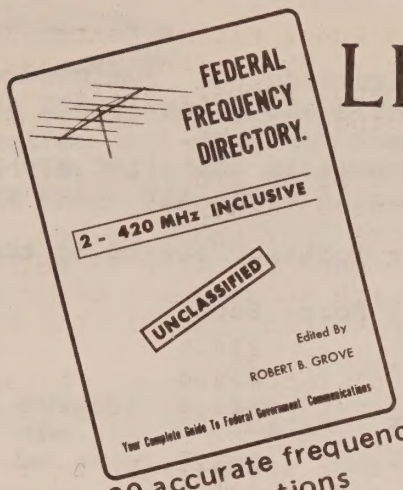
149.175	Command Post phone patches
149.475	(Administrative net?. . .ed.)
150.225	Administration
163.4875	3345th Security Police
163.5875	(Emergency Ordinance Disposal or disaster?. . .ed.)
165.0375	Maintenance
165.1375	Engineering (reserves?. . .ed.)
172.825	Fire Dept. main channel
40.90	Army National Guard, Champaign, IL

Thanks, Gary.

From CHUCK (IL-141)

168.000	VA hospital security, Marion, IL (tied to Williamson County on 39.50 MHz)
166.325	Park Ranger, Porterco, IN
166.925	Porterco (nothing heard so far)
164.750	KOB740 Union Carbide, Paducah, KY
164.375	KSX676 " " " "
164.225	KKQ636 " " " "
164.250	Unknown (DOE nationwide. . .ed.)

IMPROVE YOUR LISTENING !



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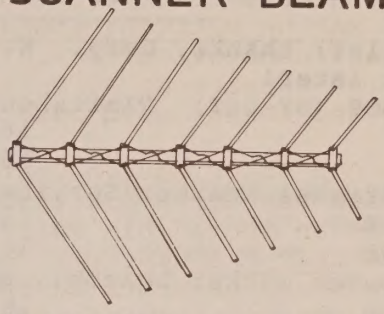

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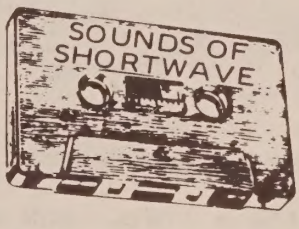

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164.325 DOE Paducah, KY (nothing heard)
166.275 " " " "
167.825 " " " "
167.925 " " " "
166.5625 Dept. of Agriculture, Cape Girardeau, MO administration

Several of the Union Carbide channels are actually DOE assignments, probably used by Carbide under government contract.

Gary notes that several quiet channels in this list are in the Federal Frequency Directory, and wonders if other listeners can clarify their use.

Nice list; thanks, Gary. We'll be looking forward to that enlarged list later!

From BOB (NY-042) Plattsbough Air Force Base

40.17		163.125	236.5	
40.19		163.250	239.8	
49.92	National Weather Service		243.0	(Search and Rescue
57.50	DOE	163.4875	Control	...ed)
60.00	DOE	163.5125	255.6	
75.00	(outer marker beacon...ed.)		290.9	
109.700	ILS	163.5375	311.0	SAC "Mainsail...ed)
111.500	ILS	164.9875	333.2	
116.900	VOR	165.0125	Security	333.2
120.700	FAA tower	165.1375	Security police	338.6
126.200	"	170.175		372.2
134.100	"	173.4125		391.9
138.075		173.5625		395.9
138.165		173.58.75		
138.175				
148.065				
149.565	Communications center			413.150
149.770	RTTY			413.450

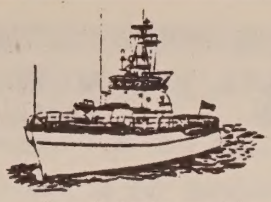
That's quite a list. Now how about some of our readers attaching uses to those frequencies? Thanks, Bob.

NOTES FROM SPACE The fourth of five planned FLEETSATCOM satellites now sits over the Pacific Ocean in orbit 22,300 miles above the earth's equator. It is part of a 2.5 billion dollar jam-proof secure communications system for worldwide support of our armed forces. Signals may be heard throughout the 240-270 MHz band.

For those of you with shortwave gear, JPL (Jet Propulsion Laboratory) transmits Voyager updates 1930-2130 and 0000-0400 UTC weekdays, and 1800-0800 UTC weekends. Frequencies used are in the ham bands: 14335,213,40 and 28680 kHz. Modes used are USB and SSTV for picture transmission. Times and frequencies vary within those limits.

By now, Bearcat will have announced two new products: their top-of-the-line BC-350 with alphanumeric display, and the entry-level BC-150. We are told that Regency also has a new "400" series due for release, and the overdue Radio Shack PRO-2002 is slated for imminent release.

There are many exciting new products slated for 1981 as our hobby continues to grow faster than at any time in history. See you next month!

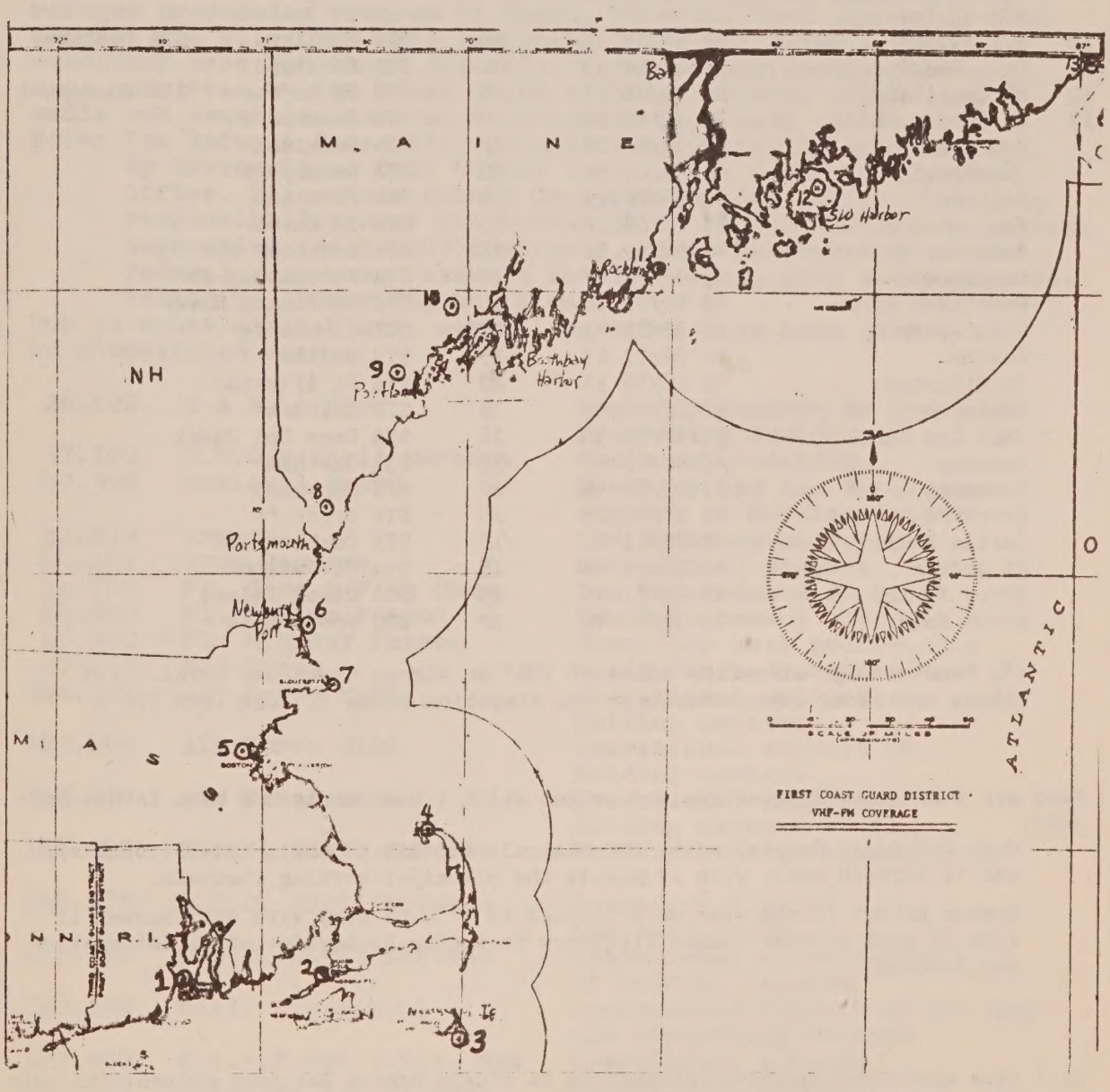


VHF Marine

Rod O'Connor, Editor

Send information, articles, frequencies and how they are used and questions that relate to private, commercial and Coast Guard VHF maritime and inland waterways radio communications to: Rod O'Connor, USCG Group, 259 High St., South Portland, Maine 04106.

This month I have enclosed a chartlet which shows the reliable minimum ranges of many Coast Guard units' distress monitoring capabilities. The offshore contour is only approximate, but serves to give a good indication of coverage areas.



As can readily be seen, Coast Guard Group Southwest Harbor, Maine has the maximum range of the First Coast Guard District. Their antenna is located atop Cadillac Mountain, Bar Harbor, Maine, with an elevation of 1530 feet.

# on chart	Unit/Site	LAT/LONG	Minimum Range(NM)	Primary Control	Alternate Control
1	**Newport Bridge***	41 30/71 20	35	GRU Woods Hole	STA Castle Hill
2	**Mobska Point***	41 31/70 39	30	GRU Woods Hole	
3	**Nantucket***	41 16/70 10	30	GRU Woods Hole	STA Brant Point
4	**Provincetown***	42 03/70 11	32	GRU Woods Hole	STA Provincetown
5	**Boston***	42 21/71 03	40	GRU Boston	
6	**Plum Island***	42 48/70 48	15	STA Merrimack River	
7	**Eastern Point***	42 34/70 39	20	GRU Boston	STA Gloucester
8	**Mt Agamenticus***	43 13/70 42	40	GRU Portland	STA Portsmouth
9	**Mt Independence*** KCB-82 Tower	43 45/70 19	40	GRU Portland	
10	**Brunswick***	43 57/69 58	40	GRU Portland	STA Boothbay
11	**Owls Head***	44 06/69 03	20	STA Rockland	
12	**Mt Cadillac***	44 21/68 13	60	GRU SW Harbor	STA Jonesport
13	**W. Quoddy Head***	44 49/66 58	30	STA Jonesport	
	Rockland	44 06/69 06	12	STA Rockland	
	Jonesport	44 39/67 35	20	STA Jonesport	
	Portland	43 39/70 15	18	GRU Portland	
	Southwest Harbor	44 16/68 19	15	GRU SW Harbor	
	Boothbay Harbor	43 50/69 38	12	STA Boothbay Hbr	
	Portsmouth	43 04/70 42	15	STA Portsmouth Hbr	
	Merrimack River	42 49/70 52	15	STA Merrimack River	
	Gloucester	42 35/70 41	15	STA Gloucester	
	Boston	42 22/71 03	15	STA Boston	
	Pt Allerton	42 18/70 55	20	STA Pt Allerton	
	Scituate	42 12/70 43	18	STA Scituate	
	Cape Cod Canal	41 46/70 30	18	STA Cape Cod Canal	
	Chatham	41 40/69 57	19	STA Chatham	
	Menemsha	41 21/70 46	20	STA Menemsha	
	Brant Pt	41 17/70 05	20	STA Brant Pt	
	Castle Hill	41 28/71 21	15	STA Castle Hill	
	Pt Judith	41 22/71 29	15	STA Pt Judith	
	Block Island	41 21/71 35	15	STA Block Island	
	Woods Hole	41 31/70 40	20	GRU Woods Hole	

(*) Denotes high elevation sites of 100' or higher above sea level. All others are local command/control low elevation sites of less than 100'.

Here are a few more frequencies and usages which I have monitored here in New England:

Cape Cod Canal Control works VHF CHannels 12 (156.60 mhz), 13 (156.65 mhz), and 14 (156.70 mhz), with 13 and 14 the principal working channels.

Boston Harbor Pilots also work Channel 13 (156.65 mhz) with VHF Channel 11 (156.55 mhz) another common frequency in Boston Harbor for pilot information and docking.

As I have mentioned monthly, information is always needed for this column. Without your input, there is not much we can share with fellow RCMA members. NO information has been received from RCMA members this past month. Hopefully this trend will improve before I consider discontinuing this column. I hope others will resume supporting the marine aspects of our hobby.

COMMUNICATIONS PROFILE

RCMA, P.O. Box 216, Willow Grove, PA 19090

This column is for special projects that explain various radio systems in detail. Frequencies and radio codes of not only municipal agencies and certain federal government agencies may be listed, but also large businesses and corporations. The contribution must be lengthy enough that publishing it in one of the regular columns would not be possible due to length. If you are inclined to submit a report as the one below appears, please follow No. 9 in the inside front cover of the newsletter.

CUBAN REFUGEE PROCESSING PROGRAM in MIAMI,FLORIDA
from R.C.M.A.-Miami Group

The following frequencies were utilized during the recent Cuban refugee processing program in Miami, Florida. Uses shown for each channel are valid for this operation only; for normal, non-emergency uses for these channels, refer to previously-published data submitted by the Miami Group or other source. Local news media and sensitive Federal frequencies have been deleted.

Note: The Refugee Processing Program was originally administered by Metropolitan Dade County through the County Manager's Office. Metro-Dade County Departments were assigned primary responsibility over the operation, with Florida state agencies supporting the County's efforts. After several weeks, the Federal government assumed the lead role, with other agencies taking up supporting positions.

Due to space limitations, several agencies have been listed in an abbreviated manner.

26.620	C.A.P. & Army	Security support at Opa-Locka Processing Center
37.180	M.D.C.* Civil Defense	Media Notification
40.300	National Guard	Security and Law Enforcement support at Holding Centers
42.200	Army**	Law Enforcement support
44.400	Army Reserve	Operational support
44.760	Fl. Game & Fish Comm.	Law Enforcement support
44.960	Fl. Marine Patrol	Law Enforcement support
45.060	Fl. Highway Patrol	Miami/Key West point-point
47.420	Red Cross	Basic Needs Coordination
142.155	Air Force MARS	Operational support at Holding Centers
143.460	Air Force MARS	Operational support at Holding Centers
143.950	Air Force MARS	Operational support at Holding Centers
146.940	M.D.C. Civil Defense	Primary link to National Guard
146.970	M.D.C. Civil Defense	Secondary link to National Guard
147.150	M.D.C. Civil Defense	Operational Coordination at Holding Centers
148.150	Civil Air Patrol	Operational support at Holding and Processing Centers
148.200	H.A.F.B.*** v.i.p. Net	Operational support
148.500	H.A.F.B. v.i.p. Net	Operational support
149.565	H.A.F.B. Commanders Net	Operational support
154.570	M.D.C. Tamiami Park & Miami Orange Bowl Stadium Manager	Property Control & Administration at Tamiami Park Processing Center and Orange Bowl Stadium Holding Centers

154.600	--same as 154.570--	
154.665	Fl. Highway Patrol	Law Enforcement
154.695	Fl. Highway Patrol	Law Enforcement
154.920	Fl. Highway Patrol	Law Enforcement
155.655	M.D.C. Public Safety Dept.	Security at Opa-Locka Processing Center
155.685	--same as 155.655--	
156.030	M.D.C. Public Safety Dept.	Security at Tamiami Park and Opa-Locka Processing Centers
156.300	Coast Guard Ch. 6	Operational support
156.600	Coast Guard Ch. 12	Operational support
156.700	Coast Guard Ch. 14	Operational support
156.800	Coast Guard Ch. 16	Marine Emergencies
157.050	Coast Guard Ch. 21	Miami Operations
157.075	Coast Guard Ch. 81	Key West Operations
157.100	Coast Guard Ch. 22	Islamorada Operations
157.125	Coast Guard Ch. 82	Key West support
157.150	Coast Guard Ch. 23	Ft. Lauderdale Operations
157.175	Coast Guard Ch. 83	Miami support
161.850	Miami Marine Operator Marathon Marine Operator	
161.900	Key West Marine Operator	
161.950	Homestead Marine Operator	
162.000	Homestead Marine Operator	
163.460	H.A.F.B. Transient Net	Operational Support
163.485	H.A.F.B. Security Net	Security support
163.585	H.A.F.B. Police Net	Law Enforcement Support
166.725	U.S. Park Police	Law Enforcement
166.850	U.S. Park Police	Law Enforcement
166.925	U.S. Park Police	Law Enforcement at Orange Bowl Stadium Holding Center
167.075	U.S. Park Police	Law Enforcement at Opa-Locka Processing Center
170.875	F.C.I.****	Medical Screening
170.925	--same as 170.875--	
453.525	M.D.C. Local Gov't Fl	Various Departments and support services
453.600	M.D.C. County Manager M.D.C. Fire/Rescue	Overall Control Medical Needs Coordination
453.650	M.D.C. Local Gov't F2	Various Departments and support services
453.475	Miami Sanitation Dept.	Operational support at Orange Bowl Stadium Holding Center
453.550	Miami Police Department	Law Enforcement at Orange Bowl Stadium Holding Center
453.750	Miami Police Department	Security at Holding Centers
462.625	Nat'l CB Assn. of Florida	Operational support

* M.D.C.: Metro-Dade County agency

** Army: The specified frequency was tuned-in on a jeep-mounted radio, but was not confirmed through actual monitoring

*** H.A.F.B.: Homestead Air Force Base; active at the time during which the Air Base was used as a staging area

**** F.C.I.: Federal Correctional Institution

Operations/Operational Support:

The Day-to-Day coordination of food, clothing, housing, medical needs, and transportation

Security/Security Support:

Responsibilities concerning site and perimeter security and control at Processing and Holding Centers

Law Enforcement/Law Enforcement Support:

Responsibilities concerning site, perimeter, transportation, and areawide enforcement of local, State, and Federal laws concerning immigration policies and movements of refugees

Processing Centers:

One-stop screening centers for personal, political, and medical background checks

Holding Centers:

Temporary housing areas set up by public and private agencies to house, cloth, and feed the refugees both prior to processing and, after processing, prior to release to sponsoring friend or relative

Primary Processing Centers:

1) Metro-Dade County's Tamiami Park/Youth Fair Exhibition Building
2) Metro-Dade County's Opa-Locka Airport/Blimp Hanger (This facility replaced Tamiami Park as a processing center after the Federal Government assumed control from Dade County)

Primary Holding Centers:

1) Miami's Orange Bowl Stadium
2) Various schools, churches, and parcels of Federal property

MIAMI'S CIVIL DISTURBANCE
from R.C.M.A.-Miami Group

The following frequencies were utilized during the recent riots in Miami.

Frequency	Agency
...Primary Operational and Control Channels...	
38.050	Florida Army National Guard
155.790	Metro-Dade County Public Safety Dept. Ch. D
453.750	Miami Police Department TAC 1
...Secondary Operational and Control Channels...	
37.180	Metro-Dade County Civil Defense
155.370	Florida Police Emergency Net (Intercity)
155.985	Metro-Dade County Public Safety Dept. Headqtrs.
453.200	Miami Fire Department Administration
453.600	Metro-Dade County Fire Dept. Command
...Primary Support Channels...	
36.150	Florida Army National Guard
36.300	Florida Army National Guard
36.500	Florida Army National Guard
36.550	Florida Army National Guard
38.450	Florida Army National Guard

38.500	Florida Army National Guard
38.700	Florida Army National Guard
40.300	Florida Army National Guard
41.650	Florida Army National Guard
41.700	Florida Army National Guard
45.060	Florida Highway Patrol Base-Base
154.665	Florida Highway Patrol South Dade County
154.695	Florida Highway Patrol North Dade County
154.770	Hialeah Police Department
154.920	Florida Highway Patrol Car-Car
155.190	Metro-Dade County Public Safety Dept. Central
155.220	Randle-Eastern Ambulance Service
155.295	Dade County Hospital Emergency Net
155.730	Metro-Dade County Public Safety Dept. Northwest
453.100	Miami Fire Department Dispatch
453.150	Miami Fire Department Operations
453.300	Miami Police Department South
453.350	Miami Police Department North
453.700	Metro-Dade County Fire Department North
462.950	Metro-Dade County Med-Com
470.562	Hialeah Fire Department

...Secondary Support Channels...

44.400	U.S. Army Reserve Operations
44.960	Florida Marine Patrol
151.160	Florida Game and Fresh Water Fish Commission
151.415	Florida Game and Fresh Water Fish Commission
154.310	Coral Gables Fire Department
154.800	Broward County Sheriffs Office
154.950	Broward County Sheriffs Office TAC
155.700	Metro-Dade County Public Safety Dept. Midwest
155.910	Metro-Dade County Public Safety Dept. Northeast
155.955	Metro-Dade County Public Safety Dept. West
156.090	Coral Gables Police Department
156.150	Metro-Dade County Public Safety Dept. Municipal
156.210	Metro-Dade County Public Safety Dept. South
453.325	Miami Fire Department Rescue Medical
453.375	Miami Local Government Paging
453.425	Miami Fire Department Rescue Dispatch
453.450	Miami Police Department Central
453.475	Miami Sanitation Department
453.525	Metro-Dade County Local Government F1
453.550	Miami Police Department TAC 2
453.650	Metro-Dade County Local Government F2
453.800	Metro-Dade County Fire Department South
453.900	Miami Local Government Phone Patch Channel
460.475	Miami Beach Police Department Headquarters
471.812	Metro-Dade County Transit Authority Supervisors

NOT LISTED: Local News Media and Sensitive Police S.W.A.T. Freqs.

MIAMI DOLPHINS FREQUENCIES at ORANGE BOWL STADIUM
from R.C.M.A.-Miami Group

The following frequencies have been monitored at the Orange Bowl Stadium during this past football season:

Note 1: Local news media channels have been omitted*
Note 2: Low-power wireless microphones worn by field Referees are unavailable, although they are probably in the 30-42 Mhz or 180-200 Mhz ranges

151.625	N.F.L. and Miami Dolphins representatives
154.570	Orange Bowl Stadium security
154.695	Florida Highway Patrol (Traffic control)
154.920	Florida Highway Patrol (Car-to-car communications)
155.220	Randle-Eastern Ambulance Service
161.640	ABC Sports: Camera directions and cueing
161.760	WIOD Radio: Miami Dolphins Football Network broadcasts, Miami Dolphins Pregame Show, ground and airborne traffic reports for both WIOD Radio 610 am and WCKT-TV channel 7
450.050	ABC Sports: TV announcers audio and cueing
450.187	CBS Sports: Production
450.550	NBC Sports: Production
450.725	NBC Sports: Crowd microphones CBS Sports: Production
450.800	ABC Sports: Crowd microphones CBS Sports: Production
450.825	NBC Sports: Camera directions and cueing
450.850	NBC Sports: Production
450.875	ABC Sports: TV announcers audio and cueing
450.950	ABC Sports: Production
453.100	Miami Fire Department
453.150	Miami Fire Department
453.475	Miami Sanitation Department (Used for statistical reporting during games and for cleanup after games)
453.500	Miami Police Department-External Units (Traffic control)
453.550	Miami Police Department-Internal Units (Security and crowd control)
453.650	Metro-Dade County Traffic & Transportation Dept. (Maintenance of temporary traffic control devices)
455.212	NBC Sports: TV announcers audio and cueing
455.412	ABC Sports: Production
455.450	ABC Sports: TV announcers audio and cueing
455.675	NBC Sports: Crowd microphones
455.725	NBC Sports: " "
455.825	NBC Sports: " "
471.812	Metro-Dade County Transit Authority (Supervisory units)
*	Standard local news media channels, as listed in the December 1980 Newsletter, are active at the stadium for "live" and taped local reports

Aircraft Frequencies utilized in vicinity of Orange Bowl Stadium:

118.300	Miami International Airport Tower (For control of advertising, traffic reporting, traffic control, and television network aircraft)
120.500	Miami International Airport: South Approach channel (For advisories to approaching aircraft concerning low-level airborne traffic around stadium)
132.000	Goodyear Tire & Rubber Company: Airship Operations*

* The Goodyear support van is equipped with VHF-Hi, VHF-Air, and UHF antennas. Although unconfirmed at this time, the VHF-Hi antenna may be for the 172.600 Common Air Safety channel, and the UHF antenna may be for the 463.500 Miami-area Goodyear Business channel

"Superstars" Event
from R.C.M.A.-Miami Group

The A.B.C. Television Network show, "The Superstars", is now being produced in south Florida within Crandon Park on Key Biscayne. Three separate tapings have been scheduled, the first of which occurred during August. The second session was recently completed in December, and the final segment will be in February. The following frequencies represent all verified channels which were operational during the first and second tapings. Since the frequencies remained constant during these tapings, they will probably be active at the February show.

FREQUENCY	EVENT USE
154.570*	Metro-Dade County Park & Recreation Dept.: Administrative units on site
154.600*	Metro-Dade County Park & Recreation Dept.: Operations units on site
155.190	Metro-Dade County Public Safety Dept.: Traffic control on surrounding roadways
156.030	Park & Recreation Dept. link to Public Safety Dept. for routine and emergency traffic and crowd control
173.225**	Candid Productions/A.B.C. Sports: General production and supervisory use
173.275**	Candid Productions/A.B.C. Sports: -same use as 173.225-
173.325	Candid Productions/A.B.C. Sports: -same use as 173.225-
173.375	Candid Productions/A.B.C. Sports: -same use as 173.225-
181.800***	50mw "Vega" wireless microphones
182.600	" " " "
188.600	" " " "
190.400	" " " "
450.112	Wometco Videotape Services: General production and supervisory use
450.387	Wometco Videotape Services: -same as 450.112-
453.650	Metro-Dade County Traffic & Transportation Dept.: Maintenanee of temporary traffic control devices
455.187***	7w one-way paging units for announcing cues
455.212	" " " " " " " "
471.287	Metro-Dade County Traffic & Transportation Dept.: Administrative communications (low-power)

* These frequencies were replaced by 453.525 during the latter part of the second taping due to local interference with other stations

** These frequencies were abandoned due to local interference with Relay Press licencees

*** These frequencies and units were leased to A.B.C. by Wometco Videotape Services, a subsidiary of Wometco Enterprises (WTVJ-Channel 4 Television)

Business, Etc.

Chuck Gysi, Editor

This column is for reporting frequency and radio system information for the following varied services: business, forest products, petroleum industry, special industrial, manufacturers, news media (behind-the-scenes radio, TV & newspaper), motion picture industry, security (private patrol, detective agencies, campus security & police, amusement park & stadium security, shopping center & mall security, plant/business/ hotel security, etc.), General Mobile Radio Service (GMRS), mobile phone/RCC & paging, trucking firms, bus lines, taxi cabs, tow trucks, utility companies (private & municipal water, power, electric, gas, telephone, etc.), and all school & college related frequencies. Send information and questions pertaining to the radio services covered in this column to: Chuck Gysi, P.O. Box 216, Willow Grove, PA 19090.

Needed: Frequencies fitting the categories listed below from your area. Apply to above address with information.

News Media/Film

CONNECTICUT AND WESTERN MASSACHUSETTS NEWS MEDIA

From Keith B. Victor (CT-042):

Alarm Room News, E. Hartford	154.540	KZP 691	Cars
Alarm Room News, E. Hartford	154.625	KCO 670	Dispatch only
WTNH TV News, New Haven	161.640	KTE 766	Dispatch/reporters
WGGB TV News, Springfield, Mass	161.640	KCI 582	Dispatch/reporters
WFSB TV, Hartford	161.670	KJM 546	Eng. crews
WELI Radio News, New Haven	161.700	KDA 946	Eng./Reporters
WICC Radio News, Bridgport	161.700	KTB 788	Dispatch/Reporters
WDRC Radio News, Bloomfield	161.730	KCG 655	Dispatch/Reporters
WPOP Radio News, Newington	161.760	KDP 970	Dispatch/Reporters
WTNH TV, New Haven	450.450	KTE 766	Eng. Crews
WFSB TV News, Hartford	450.550	KXB 262	Dispatch/Reporters
WWLP TV News, Springfield, Mass	450.950	KLE 450	Dispatch/Reporters
New Haven Register, New Haven	452.975	KCF 775	Deliveries/Reporters
Journal Inquirer, Manchester	452.975	??	Deliveries only
Hartford Courant, Hartford	453.000	KVY 296	Dispatch/Reporters
WSPR Radio News, Springfield,Ma	161.730	KQA 815	Eng crews
Springfield Republican, Spgld	173.375	KCD 403	Delivery/Reporters
WTIC Radio News, Hartford	455.850	KCG 958	Dispatch/Reporters

The above listed frequencies are operational with talking conducted on the same, all others listed in other directories are not utilzed with any great deal.

CLEVELAND NEWS MEDIA

From Gary Kawamoto (OH-016):

WJKW-TV Ch. 8 (CBS)	450.050	KEH 492	repeater
	455.050	KQM 406	repeater
WKYC-TV Ch. 3 (NBC)	161.700	KGI 361	
	161.730	KGI 361	
	161.670	KGI 361	
WEWS-TV Ch. 5 (ABC)	161.730	KGP 817	repeater
	161.760	KUY 249	repeater
WGAR-AM 1220 kHz	450.650	KTE 299	Skybird 2 traffic copter RPU-engineers

Business

GROUND FREQUENCIES AT NEWARK INTERNATIONAL AIRPORT

From Tony Loving (NJ-005):

151.715	Isis Corp.
152.900	Allied Aviation Service
154.540	Garden State Car Rental Corp.
154.540	NA Hotal Corp.
157.740	Holiday Inn (paging)
453.650	Port Authority Airport Police
460.650	Pan American World Airways
460.675	Trans World Airlines
460.700	USAir
460.725	United Airlines
460.750	Eastern Airlines
460.775	American Airlines
460.800	Piedmont Aviation
460.825	Delta Air Lines
460.850	National Airlines (Editor's note: Probably no longer in use since National was acquired by Pan Am in mid-1980.)
460.850	World Airways
464.275	Howard Johnson's Motor Lodge
464.325	Hertz Corp.
464.375	Avis Rental Car System
464.425	Airport Car Rental Corp.
470.5625	Port Authority maintenance crews
470.5875	Port Authority maintenance crews
470.6125	Port Authority maintenance crews

From TERRY MEFFORD (OH-036): International Harvester uses the following frequencies at its Springfield, Ohio, facility:

153.080	WXR 693	truck dispatch
153.335	WXR 693	administration paging
157.740	WXQ 693	office paging
158.280	WXR 693	maintenance and security
465.000	KYE 889	plant paging

Motor Carrier

Last month I mentioned that Los Angeles transit codes would appear here this month. However, the Southern California Rapid Transit District (RTD) codes and frequencies appeared in this column in the April 1980 newsletter and there is no need to reprint it. There are two additions, however. 10-11 is "in service" and 10-51 is "drunk passenger."

Mobile Phone/RCC

The following item from the Swedish-International Press Bureau was sent to me by Rinehart Potts (NJ-047).

INTER-SCANDINAVIAN AUTOMATIC MOBILE TELEPHONE SYSTEM IN OPERATION NEXT YEAR

STOCKHOLM - The National Swedish Telecommunications Administration will begin introducing the fully-automatic Nordic Mobile Telephone System (NMT) in Sweden in the summer of 1981, it is announced. The system, developed in collaboration with the telephone administrations in Norway, Denmark, and Finland, will operate throughout Scandinavia.

The Swedish part of the NMT system will comprise 250 automatic base stations which will remain in permanent contact with the telephone network via computerized exchanges. The base stations are at all times in contact with the mobile telephones, instantly converting radio signals into telephone signals.

The mobile telephones and the exchanges will continuously exchange short signals - inaudible to subscribers - which contain data on calls, channels, strength of transmission, subscribers' numbers, connection and length of calls, etc.

If a mobile telephone passes out of one traffic area and into another this fact is automatically transmitted to the appropriate exchange and the precise location of the mobile telephone can be pinpointed. This applies even when it crosses national borders. A telephone call can also be transferred from one base station to another if quality deteriorates as the vehicle in question progresses along its route.

Sweden today already has 19,000 subscribers using the existing manually expedited mobile telephone system, MTD. This system will remain operative, in parallel with NMT, for another 10 years, though sales of MTD telephones have now ceased.

Utility

PART XII--LOS ANGELES CITY WATER AND POWER SYSTEM

Yellow Frequency Operations

The Yellow frequency (47.86 MHz) has been assigned to power operations in the San Fernando Valley.

Mobile units must transmit their unit designator at least once during each series of transmissions. Mobile units with yellow frequency capability may communicate with the following: "Radio" (Radio Telegraph Office, Los Angeles), "Valley" (Electric Trouble, Van Nuys), "Dispatcher" via Valley (System Load Dispatcher, Boyleston), "Valley Stream" (Valley Generating Station), "Toluca" (Receiving Station E), "Northridge" (Receiving Station J), "Van Nuys" (Receiving Station S), "Canoga" (Receiving Station T), "Tarzana" (Receiving Station U), and "Rinaldi" (Rinaldi Receiving Station).

The following transmitters are normally used by base stations for communicating on the yellow frequency: Lookout Mountain KME 488, Receiving Station S KIA 691, and Cascades KRZ 720.

Base station operators making use of Receiving Station S or Cascades transmitters must transmit the FCC-assigned call sign at the end of each series of transmissions. The Los Angeles Radio Telegraph Office operator is responsible for identifying the Lookout Mountain transmitter.

Mobile units operating on the yellow frequency are not required to transmit the FCC-assigned call sign when clearing the frequency. They must, however, transmit their unit designator at least once during each series of transmissions.

Security

ATLANTIC CITY UPDATE

From Chuck Gysi (PA-005):

The following frequencies for hotels and casinos in Atlantic City, N.J., updates a list in the January issue. The information was obtained from FCC microfiche files.

35.90	KLW 832	Holiday Inn of Atlantic City
151.655	KVE 851	Atlantic City Resort Motel Corp.
151.685	KEZ 246	The Warwick
151.755	KST 942	Shelburne Hotel
154.515	KYR 813	Princeton Hotel
154.540	WRF 651	Beach Trams
463.825	WSK 962	Playboy (casino under construction)
464.800	WYQ 749	The Phoenix
463.500	WZP 213	The Brighton Greate Bay Hotel and Casino (unknown use)

School

From LARRY SMITH (MI-001): The following frequencies are used by schools in Michigan:

27.275	KXC 365	Albion College, Albion
27.275	KVM 633	Olivet College, Olivet (Editor's note: This is CB Channel 27. Chances are they will be moving.)
45.44	KXT 929	Michigan State University, Cassopolis
45.44	KLO 312	Michigan State University, Hillsdale
151.605	KG 3360	Northern Michigan University, Marquette
151.805	KVU 530	Northwestern Michigan College, Traverse City
151.835	KTT 771	Alma College, Alma
151.835	KLB 937	Oakland Community College, Royal Oak
461.025	KXE 658	Lansing Community College, Lansing

Freak Freqs

MISCELLANEOUS NEW YORK FREQUENCIES

From Rick Prelinger (NY-???, ex-CA-SF-002):

151.685	KYH 290	New York Racing Association (Aqueduct Racetrack)
151.685	KCB 864	Sotheby Parke Bernet Galleries
151.715	KCB 864	Sotheby Parke Bernet Galleries
151.775	KRV 732	New York Public Library
154.540	KBS 260	Rockefeller Center
154.570	KAL 965	New York Zoological Society
154.600	KAL 965	New York Zoological Society
157.740	WXU 228	Metropolitan Museum (paging)
158.460	WXF 448	Brooklyn Museum (paging)
464.425	WXK 400	Metropolitan Museum

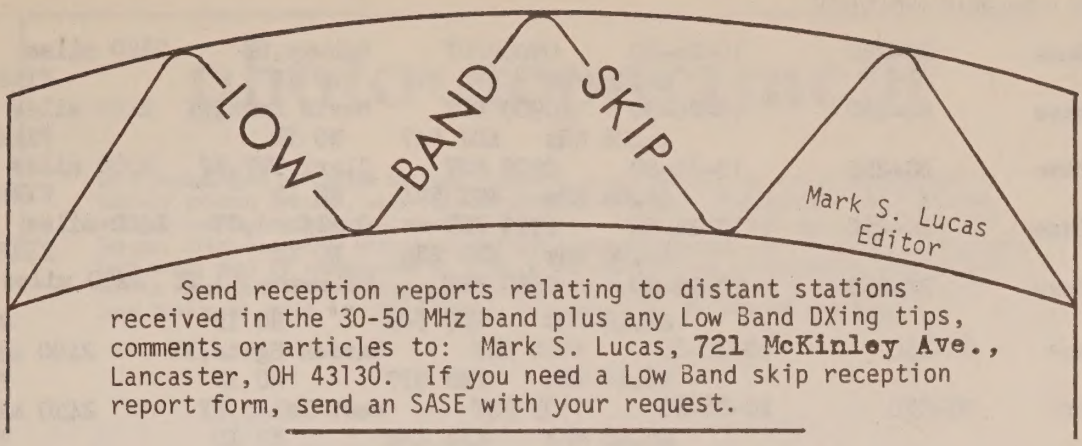
Miscellany

P.O. Box 216
Willow Grove, PA 19090

From CHUCK GYSI (PA-005): The following anecdote recently appeared in The Philadelphia Inquirer Today magazine.

During political campaigns, candidates for high office often meet with The Inquirer editorial board to be questioned about their views. So it was one day several weeks ago Vice President Mondale arrived with the usual gaggle of Secret Service men sprouting wires from their ears. A number of them milled about the lobby, awaiting the vice president's descent from the sixth-floor editorial board offices. This prompted a newspaper underling to remark on boarding an elevator: "Ain't it just like the government to hire a bunch of people with hearing problems?"

NEXT MONTH: An update on ordering FCC microfiche!



Send reception reports relating to distant stations received in the 30-50 MHz band plus any Low Band DXing tips, comments or articles to: Mark S. Lucas, 721 McKinley Ave., Lancaster, OH 43130. If you need a Low Band skip reception report form, send an SASE with your request.

By the time you read this F2 skip may very well be over. As I write this in late December, LASO is still here, but for shorter time periods and not as strong. It is to be expected what with the winter solar angles in relation to our Mother Earth. IF it happens to still be in, grab it and report it!

FROM JEFF (IL-064):		33.70 MHz	NO CALL	"Engine 46"		FIRE
Mobile	BC-250	10-15-80	1847 CDT	LA,CA.	2000 miles	
		33.82 MHz	NO CALL OR ID			FIRE
Base	BC-250	10-16-80	1725 CDT	LA,CA.	2000 miles	
		33.70 MHz	NO CALL	"Wagon 118"		FIRE
Base	BC-250	10-17-80	1515 CDT	LA,CA.	2000 miles	
		33.82 MHz	NO CALL	"OCD"		FIRE
Base	BC-250	10-18-80	1840 CDT	LA,CA.	2000 miles	
		33.82 MHz	NO CALL	"OCD"		FIRE
Base	BC-250	10-20-80	1755 CDT	LA,CA.	2000 miles	
		33.70 MHz	NO CALL	"OCD"		FIRE
Base	BC-250	10-15-80	1402 CDT	LA,CA.	2000 miles	
		33.82 MHz	NO CALL	"Battalion 13"		FIRE
Base	BC-250	10-15-80	1455 CDT	LA,CA.	2000 miles	
		33.82 MHz	NO CALL	"Task Force 88"		FIRE
Base	BC-250	10-13-80	1705 CDT	LA,CA.	2000 miles	

FROM EDDIE (IL-113) "In the December issue I noticed that ROBERT (NY-003) didn't have an ID on 154.130 MHz. I went through the "POLICE CALL" directory and had found the same call of 'KSC 711.' Robert has received Chicago,Ill. on 154.130 MHz"
(Editor's Note: That's what I call REALLY long haul tropo!)

FROM BOB (CA-LA-089):		46.46 MHz	KEG 977	NO ID		FIRE
B/M	BC-250	10-25-80	1306 PDT	Suffolk Co.,NY	2450 miles	
		46.46 MHz	KDP 450	NO ID		FIRE
Base	BC-250	10-25-80	1308 PDT	Seldon,NY	2450 miles	
		46.46 MHZ	KEF 810	NO ID		FIRE
Base	BC-250	10-25-80	1311 PDT	Ridge,NY	2450 miles	
		46.46 MHz	KBQ 231	NO ID		FIRE
B/M	BC-250	10-25-80	1322 PDT	Manorville,NY	2400? miles	
		46.06 MHz	WXR 334	NO ID		FIRE
Base	BC-250	10-25-80	1332 PDT	Union Co,PA	2200 miles	
		46.06 MHz	NO CALL	"Pottsdam Station"		FIRE
B/M	BC-250	10-25-80	1335 PDT	Pottsdam,NY	2200 miles	
		46.06 MHz	NO CALL	OR ID		FIRE
Base	BC-250	10-25-80	1348 PDT	Franklin Co.,PA	2150 miles	
		46.06 MHz	KIH 664	NO ID		FIRE
Base	BC-250	10-25-80	1350 PDT	Hampton,VA	2200 miles	
		46.46 MHz	WXK 614	NO ID		FIRE
Base	BC-250	10-25-80	1406 PDT	Ladd School VFD,Exeter,RI		
		46.06 MHz	KCD 292	NO ID		FIRE
Base	BC-250	10-25-80	1406 PDT	Newport,RI	2400 miles	
		46.06 MHz	KCC 295	NO ID		FIRE
Base	BC-250	10-26-80	0850 PDT	Westfield,MASS	2400 miles	
		46.06 MHz	KEC 249	NO ID		FIRE

Base	BC-250	10-26-80	0900 PDT	Rahway,NJ	2300 miles	
		46.46 MHz	KBQ 218	NO ID		FIRE
Base	BC-250	10-26-80	0900 PDT	Davis Park,NY	2400 miles	
		46.06 MHz	KDJ 547	NO ID		FIRE
Base	BC-250	10-26-80	0928 PST	Clark TWP,NJ	2300 miles	
		46.06 MHz	KCY 594	NO ID		FIRE
Base	BC-250	10-26-80	0929 PST	Guilford,CT	2400 miles	
		46.06 MHz	KRO 286	NO ID		FIRE
Base	BC-250	10-26-80	0932 PST	Delaware CO,NY	2200 miles	
		46.46 MHz	KDU 503	NO ID		FIRE
Base	BC-250	10-26-80	1100 PST	Garden Hghts,NY	2400 miles	
		46.46 MHz	KEH 937	NO ID		FIRE
Base	BC-250	10-26-80	1103 PST	West Islip,NY	2450 miles	
		46.46 MHz	KEE 488	NO ID		FIRE
Base	BC-250	10-30-80	0825 PST	Melville,NY	2450 miles	
		46.06 MHz	KGD 743	NO ID		FIRE
Base	BC-250	10-30-80	0830 PST	Snyder Co,PA	2200 miles	
		46.06 MHz	KGD 704	NO ID		FIRE
Base	BC-250	10-30-80	0830 PST	Columbia Co, PA	2200 miles	
		46.06 MHz	KBL 393	NO ID		FIRE
Base	BC-250	10-30-80	0831 PST	Delaware Co,NY	2200 miles	
		**46.46 MHz	NO CALL	"Juliet 1-1"		Military?
Base	BC-250	10-30-80	0850 PST	Location Uncertain		

(Editor Comments; Part of Xmission was "Uniform 4-2, This is Juliet 1-1,Roger." Can ANYONE HELP ON THIS ONE???)

		46.46 MHz	KCE 417	NO ID		FIRE
Base	BC-250	10-30-80	0850 PST	Milford,MASS	2400 miles	
		46.06 MHz	NO CALL	OR ID		FIRE
Base	BC-250	11-1-80	0848 PST	Dorchester Co,MD	2200 miles	
		46.28 MHz	NO CALL	OR ID		FIRE
Base	BC-250	11-1-80	0855 PST	Baltimore Co,MD	2200 miles	
		46.06 MHz	KDG 367	NO ID		FIRE
Base	BC-250	11-2-80	0858 PST	Roselle Park,NJ	2300 miles	
		39.36 MHz	KQA 522	NO ID		SHERIFF
Base	BC-250	11-2-80	1301 PST	Holmes Co,Ohio	1800 miles	
		46.46 MHz	KGC 337	NO ID		FIRE
Base	BC-211	11-5-80	0755 PST	Baltimore Co,MD	2150 miles	
		46.46 MHz	KIP 246	NO ID		FIRE
Base	BC-211	11-5-80	0800 PST	Charlettesville,VA		
		46.46 MHz	KGC 707	NO ID		FIRE
Base	BC-211	11-5-80	0815 PST	Lutherville,ND	2150 miles	
		46.46 MHz	KQF 750	NO ID		FIRE
Base	BC-211	11-5-80	0844 PST	Shaker Hghts,OHIO	1800 miles	
		46.46 MHz	NO CALL	"Chesterfield"		FIRE
Base	BC-211	11-5-80	0846 PST	Chestrefield,VA	2100 miles	
		46.46 MHz	KEC 443	NO ID		FIRE
Base	BC-211	11-6-80	0828 PST	Center Moriches,NY	2200 miles	
		46.46 MHz	KEH 912	NO ID		FIRE
Base	BC-211	11-6-80	0856 PST	Ulster Co,NY	2200 miles	
		46.46 MHz	NO CALL	"West Hurley Control"		FIRE
Base	BC-211	11-6-80	0857 PST	West Hurley,NY	2200 miles	

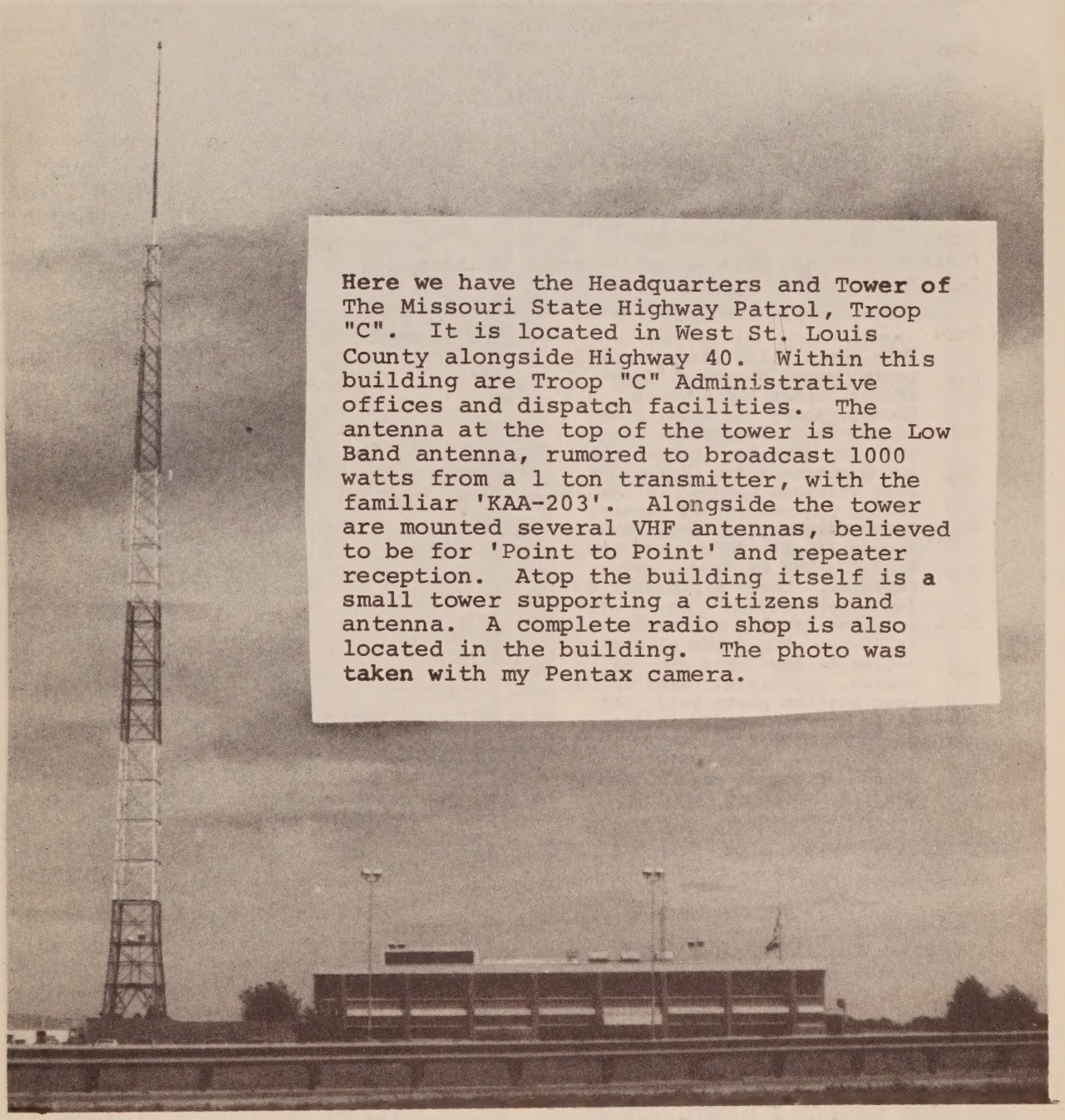
Whew! What a great selection! OK, let's face it, by now cabin fever must be getting to you. So get out that log sheet and send in your loggings TODAY! A SASE (LONG type) will get you the forms. PLEASE! Try to get as much details as you can gleem from what you heard. That way I can keep our members from dozing off in the middle of this column. Make it EXCITING and INTERESTING!

Before I go 10-7, I have a mystery station to get solved. It appears on 39.40 MHz (Local PD), it's in French w/ a series of five digital (?) type tones are sometimes heard along with the voice transmission. If anyone (even Ricky Stein!) with an idea, send it along with your loggings. It's the only foreign type skip I've yet attempted to ID accurately.

So until next month when I may see YOU listed amoung the loggings..... 73 and the best for long distances!

photo department

Send photographs of custom monitor listening posts, unusual or extensive monitor or two-way antenna systems, user station consoles (PD, Fire, Paramedics, etc.) or other monitor/two-way related equipment of interest. Photographs must be 3 x 5 inches or larger, black-and-white with good contrast, sharply focused and attractively composed. Each photo must be accompanied by details and explanations of equipment. Photos will not be returned. If you have questions, write first and please include an SASE. Send photos or write to: Mike Redman, P.O. Box 1177, St. Charles, MO 63301.



Here we have the Headquarters and Tower of The Missouri State Highway Patrol, Troop "C". It is located in West St. Louis County alongside Highway 40. Within this building are Troop "C" Administrative offices and dispatch facilities. The antenna at the top of the tower is the Low Band antenna, rumored to broadcast 1000 watts from a 1 ton transmitter, with the familiar 'KAA-203'. Alongside the tower are mounted several VHF antennas, believed to be for 'Point to Point' and repeater reception. Atop the building itself is a small tower supporting a citizens band antenna. A complete radio shop is also located in the building. The photo was taken with my Pentax camera.

This photo illustrates the St. Louis County Emergency Operations Center Radio Tower, located above the underground center in Chesterfield. Among the many antennas located here are 5 antennas for County EMS Base Stations located in the Police Communications Center, County Highway Repeater, EBS access (beam), Shortwave, Low Band CD, VHF CD, and 2 meter repeater. There's probably a few more I couldn't think of. Only the top 2/3 of the tower is shown. The wires seen at angles to the tower are, of course, guy wires. Sent in your station photo yet? Get it in the mail today in the preferred black and white 5 x 7 size. NEXT MONTH: Photos of one of the Chicago Chapter Meetings!

International

Richard Stein, Editor

This column is for reporting two-way communications frequencies above 30 MHz, radio system details, monitoring experiences and any other information relating to monitoring in countries other than the United States and Canada.

Send to: Richard Stein, 456 Barrymore Pl., North Brunswick, NJ 08902.

••••AUSTRALIA UPDATE••••

I have just received a most interesting letter from Arthur (001-AUST) with a good deal of additional information about monitoring in general in Australia. This is a continuation of our dialogue in response to some questions I wrote him about,after receiving the information that appeared in last month's Newsletter.

He starts off by saying that there are no published sources of frequency information in Australia probably owing to the former legal aspects of monitoring in that country. It is hoped that the hobby will now open up because of the ruling by the Supreme Court which we reported last month. All three bands are used in a rather random manner. He enclosed a Frequency Spectrum Chart which appeared in "Electronic Australia Yearbook 1976/77". A portion of that chart is REPRODUCED AS PART OF THIS ARTICLE.

Arthur continues by reporting that he has logged calls throughout the 75-85.5 low band, 157-174 high (plus 156 Marine), and 450-492 UHF. Below 156 (to the AM air band) there are only 'air images'. Above 492 appear to be images. In addition to advised information on essential services, he has found additional Police Frequencies on 483MHz for portable use, running "piggy-back" to all VHF frequencies noted. Has also logged ambulances on 484.550.

Frequencies in the 30-50MHz band don't appear to be used very much, no doubt due to the extreme interference from TV Channel 0 (45-52MHz) in the capital city areas. These are a great source of annoyance to Amateur Radio operations. (George DuBois,OR-001, has logged and VERIFIED VL2AW on 39.250, a power company station. New South Wales, Australia. This was done by low-band skip! Don't have the location but it is probably away from the main city of Sydney.)

One item of note would be the UHF CB band of 476.0 to 477.4 MHz. This is in addition to the normal 27MHz band which is/or was to be phased out in 1982, although the practicalities of this is very much in doubt.

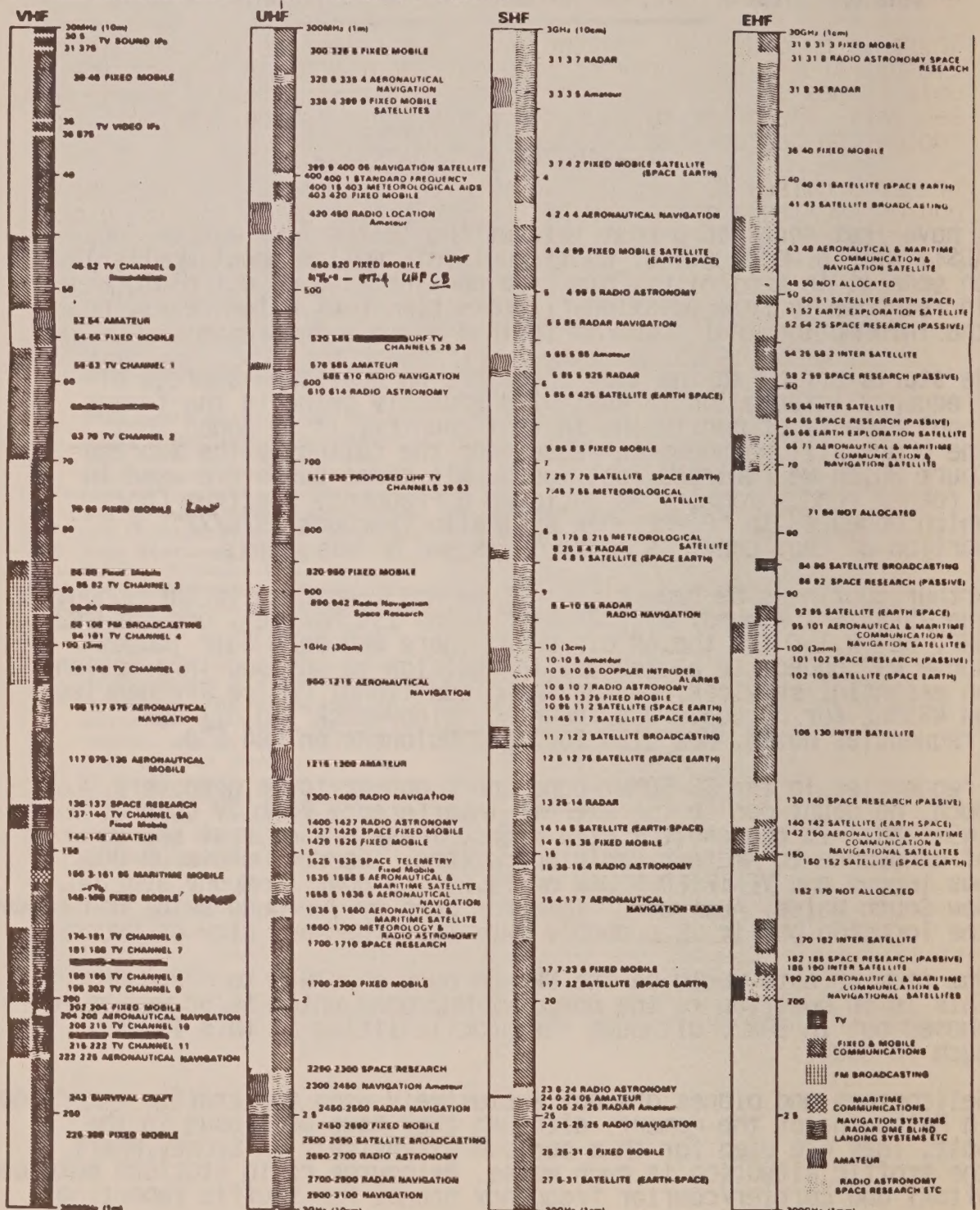
Helicopters and planes are not exclusively used for traffic reporting in Melbourne at the moment, although they have been used in the past. They are used for this purpose extensively in Sydney,where the traffic situation is much worse. Melbourne radio stations make use oftaxi and carrier/courier frequency groups for traffic reporting.

Two of the TV Channels in Melbourne run their own Jet Ranger helicopters mainly for news purposes. Channel 10 is one of these and contact is through 159.400 MHz and is continually heard. The police have a "dauphine" helicopter which makes for interesting listening on the normal police channels.

In addition to these, several planes are used during the summer months which start in December (remember, the seasons in the Southern hemisphere are the reverse of ours in the North) for shark spotting on Port Philip Bay and the nearer ocean beaches!

ELECTRONICS AUSTRALIA DATA

FREQUENCY SPECTRUM



Services shown in small letters are secondary services. They must not cause interference to the primary service, and must tolerate any interference from the primary service. "Passive" segments. All emissions prohibited. Passive (receiving) devices only allowed

Arthur's monitoring history goes back over 20 years when, in those days the Metro Fire Brigade was on approximately 1.7 MHz, and with minor modifications a normal broadcast radio would suffice. (Sounds exactly like the sorts of things I was doing 20 years ago while at the University of Cincinnati- adjusting the trimmer on car radios to catch KQA-387 base on 1706 kHz, viz. Newsletter June 1980, pg. 56) He has graduated through a VHF set,a Patrolman-5 to a BC-220FB with Discone antenna and 2 UHF Yagis tuned to 463MHz.

There is no organized monitoring in Australia due the past legal status. Arthur was lucky to find out about RCMA in some of the 4 only issues of "CB Magazine" brought out to Australia. A note about Bearcats- the after sales service available is non-existant. The radios can be "carried into" Australia duty free.

Arthur promises to keep us posted with developments as they happen and/or knowledge as he obtains it. This will be an ongoing process as he is continually locating new frequencies and working out. procedures. Many thanks to Arthur for a fine report with very interesting information. We look forward to hearing from him again. This is exactly the type of information this column needs from the small number of International members and the membership at-large to keep the column going. Let's hear from you. להתראות

FCC TOPICS

George DuBois, Editor

Send FCC news and information of interest that relates to two-way communications above 30 MHz and questions regarding the FCC Rules and Regulations to: George DuBois, 10048 NE Campaign, Portland, OR 97220.

The question I get asked most often is "what's between 72 and 76 mHz?". (Yes, people stop me on streetcorners and ask me that.) Most of us can't readily tune the band but, since it is a VHF utility band, here is everything you wanted to know, and more. Situated between TV channels 4 and 5, most of the band is for Fixed service, that is, communication between two, or more, fixed points. A handful of channels are available for mobile use (communication between bases and/or mobiles), but only with low power. Since, for me anyway, it's always easier to visualize frequency allocations when they are in graphical form, here's a look at the spectrum from 72 to 76 mHz, with explanations to follow:

Radio Control	Fixed	Manufacturers Radio Service (mobile)	Spec.Industrial, Railroad R.S. (mobile)
	72.02	72.02	
	72.04	72.04	
	72.06	72.06	
72.08	72.08	72.08	
	72.10	72.10	
	72.12	72.12	
	72.14	72.14	
72.16	72.16	72.16	
	72.18	72.18	

	72.20	72.20	
	72.22	72.22	
72.24	72.24	72.24	
	72.26	72.26	
	72.28	72.28	
	72.30	72.30	
72.32	72.32	72.32	
	72.34	72.34	
	72.36	72.36	
	72.38	72.38	
72.40	72.40	72.40	
	72.42		
		72.44	72.44
	72.46		
		72.48	72.48
	72.50		
		72.52	72.52
	72.54		
		72.56	72.56
	72.58		
		72.60	72.60
	72.62		
	72.64		
	72.66		
	72.68		
	72.70		
	72.72		
	72.94		
	72.96		
	72.98		

73.0 - 74.6 Radio Astronomy
74.6 - 75.4 ILS Marker Beacons

	75.42		
		75.44	75.44
	75.46		
		75.48	75.48
	75.50		
		75.52	75.52
	75.54		
		75.56	75.56
	75.58		
		75.60	75.60
	75.62		
75.64	75.64		
	75.66		
	75.68		
	75.70		
	75.72		
	75.94		
	75.96		
	75.98		

Radio Control. Under Part 95, these channels are for the control of models for hobby use. 72.08, 72.24, 72.40 and 75.64 are for control of aircraft models only, the others for any type of model and output power is limited to 3/4 watt. As you can see, these channels are shared with the fixed service, a matter of considerable concern to the model aircraft hobby groups.

The Fixed service channels are available for point-to-point use in all the land mobile services except the Manufacturers, Taxicab, Telephone maintenance and Auto Emergency Radio Services, but including the Aircraft and Marine services. Maximum power is 300 watts and measures must be taken to prevent interference to TV channels 4 and 5, if they are in use. A lot of radio common carriers use the band, to remotely

key one, or more, paging transmitters. Few police agencies use the band, since they usually require more than one channel in each direction, which is achieved more economically with multi-channel equipment in bands above 900 mHz.

Also under the heading of fixed service are radio call boxes, used to request police, fire or highway aid. Voice transmissions aren't allowed and maximum power output is one watt. This would be the typical radio fire call boxes many cities use, with tone pulsing to indicate the location of each box.

- Mobile service is allowed on a number of channels in the Special Industrial, Manufacturers and Railroad Radio Services. All use must be within the confines of a plant, factory, mill, railyard, mine or construction area and power output is limited to one watt. Use of the band is not all that great, since if a company also requires communications over an entire city, for example, two radio systems would be required, two systems that couldn't communicate with each other. Again, care must be taken to prevent interference to TV channels 4 and 5, with the obligation to resolve complaints on the user.
- The band from 73 to 74.6 mHz is reserved for Radio Astronomy in this hemisphere. No transmissions are allowed in this band.
- Finally, 75.0 mHz is used worldwide for aircraft Instrument Landing System Marker Beacons. These are low power transmitters located at points along a runway approach. They are tone modulated with a Morse code identifier ar different rates, and, by their location, indicate the distance to the runway. A 400 kHz guardband is provided on both sides of the frequency. See past newsletter Aircraft columns for more details. At one point you have probably wondered why the 72-76 band exists in the first place. Well, it's simply that this frequency, 75.0 mHz, was allocated for ILS before the TV channels were laid out, way back in the mid 40's. When the TV channels were later allocated, they fit together best by simply leaving this 4 mHz gap.

How do you monitor the band? Surplus military gear may cover from around 38 to 76 mHz, but is usually channelized in 100 kHz steps and is for wideband FM. Surplus marker beacon receivers can be bought cheap and modified, but have very poor sensitivity. A converter, such as those from Vanguard Labs, may be the way to go, converting the receive frequency to the range of your scanner. My recommendation is one of the many portable radios that tune the TV bands, the ones that allow you to listen to TV audio. GE has the broadest line. Radio Shack has two models. They have fair sensitivity and you simply tune between channels 4 and 5. If you live near an airport, use the 75 mHz marker beacon to find the general area on the dial. This won't give you much of an indication of the exact frequency, but will put you in the ballpark and let you listen in on whatever activity there may be.

Late News Update!

The Final Order regarding temporary licensing in the Business Radio Service, which I mentioned in the December column, has been stayed by the FCC. This is in response to an appeal filed in the US Court of Appeals for the District of Columbia by Telocator of America. Telocator represents the Radio Common Carrier interests and had opposed the temporary licensing proposal. In their comments on the proposal they had stated that the Commission does not have the authority to issue temporary licenses under the Communications Act, that it would compound the problems presently encountered with shared repeaters, where operators overstate the number of licensees to limit users on the channel, and that temporary licensing is not needed. They were overruled on all counts. Actually, their real concern is that the relative ease with which a user could obtain a license will lead to possible "illegal" use of the Business Radio Service (See ATS vs. GCC, Feb. Column.) and that Radio Common Carriers will lose potential business. My own opinion is that the suit, and all the previous protestations, are so much bulls**t, but an effective delaying tactic.

AZ 025 DENNY, TOM;PO BOX 9930;TUCSON, AZ 85720
AZ 026 MCCARTHY, DANIEL;PO BOX 1149;PARKER HOSPITAL
PARKER, AZ 85344
AZ 027 MATTINGLY, PAUL A;PO BOX 141;MORRISTOWN, AZ 85342
CAAL028 DELAHO, DEAN E;27659 MIAMI SVE;HAYWARD, CA 94545
CAKE008 GRIFFIN, STEPHEN M;563 ARGUS STREET;RIDGECREST, CA 93555
CAKF009 HORN, THEO J;1636 SAGUARO STREET;RIDGECREST, CA 93555
CALA341 AMSPOKER, DENNIS;1401 S ALAMEDA ST;LOS ANGELES, CA 90021
CALA342 KEMPSTER, PHILIP;2800 NEILSON WAY #601
SANTA MONICA, CA 90405
CALA343 GROSS, HOWARD A;8403 LINDLEY #5;NORTHRIDGE, CA 91325
CALA344 STODDARD, ROBERT;205 WASHINGTON AVE
SANTA MONICA, CA 90403
CALA345 LANGE, ELMER B;5907 WEST 75TH STREET
LOS ANGELES, CA 90045
CALA346 MEGDAL, BARRY B;135 S ROOSEVELT AVE;PASADENA, CA 91107
CALA347 EGEBJERG, CHRIS M;1432 ONEONTA KNOLL
SOUTH PASADENA, CA 91030
CALA348 HESS, D.E.;9526 LOS ANGELES STREET #8
BELLFLOWER, CA 90706
CALA349 PELLER, ARNOLD;1460 S BARRY AVE #5;LOS ANGELES, CA 90025
CALA350 WOLFSON, BRUCE;4319 MENTONE AVE;CULVER CITY, CA 90230
CALA351 BEATTY, GORDON;8815 TYRONE AVENUE;PANORAMA CITY, CA 91402
CALA352 ALVES, EDE;305 ACORN CIRCLE;MONROVIA, CA 91016
CALA353 JONES, DONALD;1726 FREEMAN AVE;LONG BEACH, CA 90804
CALA354 DALEY, F.;3378 LOS FLORES;LYNWOOD, CA 90262
CAME013 BLOCK, PETER;202 LAUREL PLACE;SAN RAFAEL, CA 94901
CAOR177 BRECKINRIDGE, BILL;212A N KODIAK ST;ANAHEIM, CA 92807
CAOR178 LEEPER, JOHN E;1152 N WEST ST #F-4;ANAHEIM, CA 92801
CAOR179 ALLEN, TERRY;9151 CHAPMAN #3;GARDEN GROVE, CA 92641
CAOR180 HOTCHKISS, JACK A;13302 WILSON STREET
GARDEN GROVE, CA 92644
CASB033 LUTZ, GEORGE;8762 CANDLEWOOD;CUCAMONGA, CA 91730
CASC022 JOHNSON, CHARLES L;PO BOX 359;LOS ALTOS, CA 94022
CASD032 DONNELLY, WILLIAM;1930-321 ENCINITAS RD
SAN MARCOS, CA 92069
CASD033 MURPHY, MICHAEL P;738 LAGUNA AVE;EL CAJON, CA 92020
CASF018 SEARLE, CLAXTON;2220 CLAY STREET;SAN FRANCISCO, CA 94115
CASM018 PURVEY,COLIN;161 SHELTER COVE DR;HALF MOON BAY, CA 94019
CASN004 SAWYER, GENE H;20 RAINSVILLE RD;PETALUMA, CA 94952
CT 041 REIBOLD, WALTER;59 DALTON ST;OAKVILLE, CT 06779
CT 042 ALARM ROOM RADIO;44 SUFFOLK DR;EAST HARTFORD, CT 06118
DC 006 BRITTAIN, BRAD;%ABC NEWS;1124 CONN AVE NW
WASHINGTON, DC 20036
FL 084 PATTERSON, JOHN H;201 OCEAN BLVD #512
POMPANO BEACH, FL 33062
FL 085 S.E. GIERA COMAPNY;6816 NW 26 AVE
FORT LAUDERDALE, FL 33309
FL 086 JAMES, DR S.D.;PO BOX 5130;ORLANDO, FL 32855
FL 087 SADAGURSKY, TOM;1021 NW 207TH ST;MIAMI, FL 33169
FRCP027 WHITE, JEFF;409 LACONIA LANE;SCHAUMBURG, IL 60193
HI 004 KOEPKE, W.R.;75 LAHIKI CIRCLE;AIEA, HI 96701
IL 160 LUCNIK, PETER;1002 E OAK AVE;LA GRANGE PARK, IL 60525
IL 161 KASTEK, JOHN;12859 SENECA ROAD;PALOS HEIGHTS, IL 60463
IL 162 KOVALCIK, LEROY J;700 CHASE AVE;JOLIET, IL 60432
IL 163 BROWN, G.H.;1701 CHEVY CHASE;CHAMPAIGN, IL' 61820
IL 164 CHAMBERS, J.E.;1618 ORRINGTON AVE;EVANSTON, IL 60201
IL 165 STRYKER, KEN;6350 N HOYNE AVE;CHICAGO, IL 60659
IN 043 MORRIS, DONALD W;1103 INDEPENDENCE PLACE;SALEM, IN 47167
IN 044 WEINTRAUT, RICHARD;GENERAL DELIVERY;WINSLOW, IN 47598
KS 018 HAMMERBACHER, KENNETH;720 23RD STREET BELLEVILLE, KS 66935

KS 019 HULL, KEVIN;32545 WEST 135TH;OLATHE, KS 66061
KY 019 GREEN, DENNIS;745 MEADOW WOOD;VILLA HILLS, KY 41017
KY 020 DEESE, J.W.;977 TURKEY FOOT;LEXINGTON, KY 40502
MA 074 POULIN, ROBERT G;296 SOUTH STREET;NORTHAMPTON, MA 01060
MA 075 WHELAN, EDWARD;22 GRANITE ROAD;SAUGUS, MA 01906
MA 076 MANNIX, THEODORE J;FIELDSTONE GARDENS;15 HUNT STREET
WEYMOUTH, MA 02188
MA 077 HOURIHAN, JOSEPH F;1414 EASTERN AVE;MALDEN, MA 02148
MA 078 DUGUAY, ULRIC;37 HIGHLAND STREET;ORANGE, MA 01364
MA 079 ROSE, ART;132 SPRING ST;MEDFORD, MA 02155
MD 044 MARKERT, ARTHUR E;5505 WILLIAMS RD;HYDES, MD 21082
MI 066 LEININGER, JIM;1061 17TH STREET;WYANDOTTE, MI 48192
MI 067 CORTEWAY, MARVIN;4701 WESTFIELD;PORTAGE, MI 49081
MN 025 WILKEN, STEVEN C;ROUTE 2;MILACA, MN 56353
MN 026 MATTSEN, DANIEL;500 MAPLE LEAF ROAD;ST MICHAEL, MN 55376
MN 027 SPANG, A JAMES;205 WEST KENT RD;DULUTH, MN 55812
MO 038 CAVANAUGH, TJ;FRIENDSHIP VILL #136;15201 OLIVE BLVD
CHESTERFIELD, MO 63017
MO 039 HUFNAGEL, FRED A;7166A JAMIESON AVE;ST LOUIS, MO 63109
NC 022 DAVIS, RANDALL;217 FRIENDSHIP CIRCLE
WINSTON-SALEM, NC 27106
NC 023 HOOTS, E.W.;1210 GREEN VALLEY ROAD
WINSTON-SALEM, NC 27106
NC 024 GRUBBS, RICKY E;909 DOBSON STREET;KERNERSVILLE, NC 27284
NJ 085 KOCZON, MAJ WM;USA SIGNAL CORPS RET;85 LAKELAND DR
BRICKTOWN, NJ 08723
NJ 086 SCHNEITZER, GARY;KEN GARDENS SECT 2 #95C
CLIFFWOOD, NJ 07721
NJ 087 HOVEY, STEVEN D;444 HARTUNG DRIVE;WYCKOFF, NJ 07481
NJ 088 HOLZMER, ALLYN;3858 BAYSHORE RD;NORTH CAPE MAY, NJ 08204
NJ 089 KNAPP, GEORGE;542 MORSETOWN ROAD;WESTMILFORD, NJ 07480
NJ 090 BURT, FRED;RFD 1;BOX 152N;SKILLMAN, NJ 08558
NJ 091 VAN GULICK, RONALD;64 SPERLING ROAD;CLIFTON, NJ 07013
NJ 092 KAPPEL, WILLIAM;212 WAYNE AVE;HADDONFIELD, NJ 08033
NM 005 RICHTER, FRED;PO BOX 407;MAGDALENA, NM 87825
NV 007 TONGUE, RAY;4016 PAUL ROBERTS COURT;LAS VEGAS, NV 89102
NY 138 DOLE, STEPHEN;4699 BERRY ROAD;FREDONIA, NY 14063
NY 139 BROWN, DAVID E;94-19 97TH STREET;OZONE PARK, NY 11416
NY 140 MUNIZ, ROBERT;PO BOX 536;TRIBORO STATION
NEW YORK, NY 10035
NY 141 ROBINSON, EVERMONT;109-84 VAN WYCK BLVD
SOUTH OZONE PK, NY 11420
NY 142 SAILE, CHARLES;223 TROY-SCHENECTADY RD;LATHAM, NY 12110
NY 143 PILEK, TOM;167 E GAINSBORG AVE;E WHITE PLAINS, NY 10604
NY 144 MILO, BOB;117 FENIMORE RD;MAMARONECK, NY 10543
OH 082 FINZEL, JACK;2444 PELTON AVE;ACRON, OH 44314
OH 083 STRAYER, RANDAL L;1348 WEATHERVANE LN #2D;AKRON, OH 44313
OH 084 MAKRAUER, GEORGE;284 COMPTON RIDGE DR
CINCINNATI, OH 45215
OH 085 MAJOR, LENNY;PO BOX 706;ASHTABULA, OH 44004
OH 086 BURNS, GEORGE W;BIGELOW-RICE BLDG;OHIO WESLEYAN UNIV
DELAWARE, OH 43015
OK 020 R AND R ELECTRONICS;113 W MAIN;HOLDENVILLE, OK 74848
OR 029 MUSGROVE, AL;PO BOX 684;MEDFORD, OR 97501
OR 030 WESTERN RECORDING RESEARCH;PO BOX 1192
PHILOMATH, OR 97370
OR 031 FRANKLIN, ROBERT C;RT 3;BOX 3783;HERMISTON, OR 97838
OR 032 NYLAND, PAUL;BOX 4;STAR RT;BRIGHTWOOD, OR 97011
OR 033 MICHAUD, DAVE;4130 SW VIEW POINT TERRACE #12
PORTLAND, OR 97201
PA 105 STEVENS, EUGENE;1028 ERIE AVE;RENOVA, PA 17764
PA 106 BOWEN, WALTER;RD 6;BOX 66;DANVILLE, PA 17821
PA 107 HOWE, DICK;2210 TAGGERT STREET;WESLEYVILLE, PA 16510
PA 108 GAUL, LEWIS J;RD 1;PO BOX 574;BOYERTOWN, PA 19512
PA 109 RISHEL, THOMAS V;47 EAST BERKELEY STREET UNIONTOWN, PA 15401

PA 110 BILLSBOROUGH, PHILLIP L;40 CONCORD STREET
UNION CITY, PA 16438
PA 111 LAMBERT, WILLIAM A;1007 LOW STREET;EASTON, PA 18042
PR 002 UBIDES, JOSE;BOX 7012;PONCE, PR 00731
RI 009 NOEL, BARRY S;116 RESERVOIR AVE;PROVIDENCE, RI 02907
SC 011 JORDAN, ARTHUR;103 WEDGEWOOD DR;GREENVILLE, SC 29609
TN 016 SHERRILL, BARBERA B;910 CHEROKEE LANE
SIGNAL MOUNTAIN, TN 37377
TN 017 SCARBOROUGH, DAVID;PO BOX 485;UNION CITY, TN 38261
TN 018 RECTOR, D.K.;PO BOX 1885;KNOXVILLE, TN 37901
TX 070 JOHNSON, GREG;9823 SAGEWELL;HOUSTON, TX 77089
TX 071 SHELTON, JOE H;PO BOX 2192;ABILENE, TX 79604
TX 072 PRUDEN, MICHAEL;2602 SHENANDOAH DRIVE;ARLINGTON, TX 76014
TX 073 LAWREY, JOHN;PO BOX 344;SOMERSET, TX 78069
TX 074 SCHRATHER, FRANK;RT 1;BOX 501;NEW BRAUNFELS, TX 78130
TX 075 JUDD, BEN B;508 HIGHLAND BLVD;RICHARDSON, TX 75080
TX 076 BARKER, ROBERT;15311 PARKVILLE DR;HOUSTON, TX 77068
TX 077 MEGEE, MICHAEL;14327 CROSSHAVEN DR;HOUSTON, TX 77015
TX 078 SCOTT, WILLIAM;3105 COLQUITT;WICHITA FALLS, TX 76309
TX 079 DILLMAN, JOHN;PO BOX 1611;SAN ANTONIO, TX 78296
UT 006 MELBERG, EVERETT E;32 N 600 WEST #3
SALT LAKE CITY, UT 84116
UT 007 JEWKES, MONT K;ROUTE 2;BOX 27-F;PRICE, UT 84501
VA 038 FERRELL, JAMES;RT 6;BOX 423-C;RICHMOND, VA 23231
WA 025 FISHER, R.J.;PO BOX 396;ROCHESTER, WA 98579
WI 028 HAMMERLING, LARRY;345 BELLEVILLE ST;RIPON, WI 54971
WV 016 HUNT, STEVE;112 MCNABB DR;ELKVIEW, WV 25071
063CANA BUTT, CLIFFORD,514 JOFFRE STREET;VICTORIA, B.C.
CANADA V9A 6C9
064CANA CAMPBELL, G.E.;303-160 ERSKINE AVE;TORONTO, ONTARIO
CANADA M4P 1Z3

LIST/MEMBERTOTALS (12/18/80)

AK.....1
AL.....13
AR.....10
AZ.....25
CA....689
CO.....24
CT.....39
DC.....5
DE.....9
FL.....80
GA.....25
HI.....4
IA.....22
ID.....3
IL....160
IN.....37
KS.....19
KY.....19
LA.....16
MA.....76
MD.....41
ME.....12
MI.....59
MN.....25
MO.....36
MS.....13
MT.....2
NB.....2
NC.....22
ND.....3
NH.....10
NJ.....90
NM.....5
NV.....7
NY....125
OH.....81
OK.....17
OR.....28
PA....106
PR.....2
RI.....7
SC.....8
SD.....3
TN.....18
TX.....73
UT.....7
VA.....34
VT.....2
WA.....20
WI.....26
WV.....16
WY.....3

ARUB....1
AUST....1
BERM....2
CANA...55
ENGL....2
ICLD....1
MEXI....2
NIRE....2
NZEL....1
SAAR....1
SWED....2

MONITORING & THE LAW

Send all articles, references, copies of monitoring laws and questions pertaining to the legal aspects of monitor radio listening to:

EDITOR NEEDED!

We need a new Monitoring and the Law column editor. The editor of this column should have some familiarity with monitoring laws and it would be desireable if he/she had a collection of monitoring laws from around the nation. This editor would be required to generate some information for the column as well as organize input from the general membership. If you are interested, please TYPE a letter telling about yourself and qualifications to: RCMA Managing Editor, P.O. Box 216, Willow Grove, PA 19090.

NEXT MONTH: The Canadian monitoring law gets more confusing!

ASSOCIATION OF NORTH AMERICAN RADIO CLUBS

NEWS HIGHLIGHTS

ANARC is a federation of the most responsible, well established radio listening clubs in North America. RCMA attained Full Member status in ANARC in 1977. For a list of the ANARC Member and Associate Member clubs send a self-addressed, stamped business size envelope with your request to the address below. For an annual subscription to the monthly "ANARC Newsletter" send $3.50 to: ANARC, 557 N. Madison Ave., Pasadena, CA 91101.

May 22-25 - EDXC Conference in Berne, Switzerland. For details, send two IRCs to EDXC 81, P.O. Box 4, St. Ives, Huntington, Cambs., PE17 4FE, England.
July 17-19 - ANARC Convention in Thunder Bay, Ontario. Details from ANARC 81, P.O. Box 142, Thunder Bay, Ontario P7C 4V5.
July 31/Aug 1 & 2 - WTFDA Convention in Oklahoma City, OK.
Aug 20-23 - IRCA Convention in Calgary, Alberta.

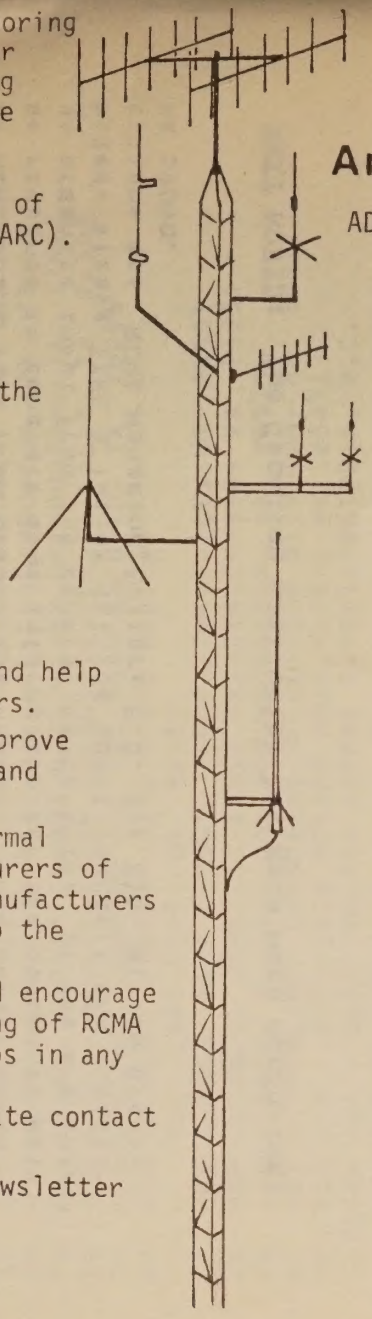
EUROPEAN DX COUNCIL CONFERENCE 1981

Fri., May 22 - Reception at Swiss Radio International
Sat., May 23 - Official opening of the conference. Various talks, including one by Keith Edwards of the BBC on "The Future of Broadcasting." In the afternoon, discussion groups will be formed on various topics. There will be a sightseeing tour of Berne in the late afternoon, followed by dinner.
Sun., May 24 - Dsicussion groups will continue in the morning. In the afternoon there will be a trip to Beatenburg on Lake Thun, followed by a visit to the Traffic, Transport and Telecommunications Museum in Lucerne. The annual EDXC Banquet will take place this evening, as well as a HAP auction.
Mon., May 25 - This final day of the Conference will consist of a morning session only, during which time the final conclusions from the discussion groups will be presented.

The Radio Communications Monitoring Association is a radio club for persons interested in listening to two-way communications above 30 MHz as a hobby. RCMA was founded in May 1975 and is a Full Member of the Association of North American Radio Clubs (ANARC).

The goals of RCMA are:

1) To provide a fraternity for those who seriously pursue the hobby of monitor radio listening.
2) To try to be knowledgeable about two-way radio systems and operations.
3) To promote an understanding of the legal and ethical uses of monitor receivers.
4) To share information with and help other monitor radio listeners.
5) To try to understand and improve receivers, antenna systems and related equipment.
6) To offer suggestions and formal recommendations to manufacturers of monitor receivers and to manufacturers of other products related to the hobby.
7) To offer suggestions for and encourage the organizing and conducting of RCMA meetings and tours for groups in any geographic area.
8) To encourage and to facilitate contact between members.
9) To publish a regular club newsletter devoted to the hobby.



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